

Pantheon Report

Generated at 2020-04-16 07:39:57 (UTC).

Tested in mahimahi: mm-delay 88 mm-link 2.64mbps-poisson.trace 2.64mbps-poisson.trace
--uplink-queue=droptail --uplink-queue-args=packets=130

Repeated the test of 24 congestion control schemes 3 times.

Each test lasted for 30 seconds running 1 flow.

System info:

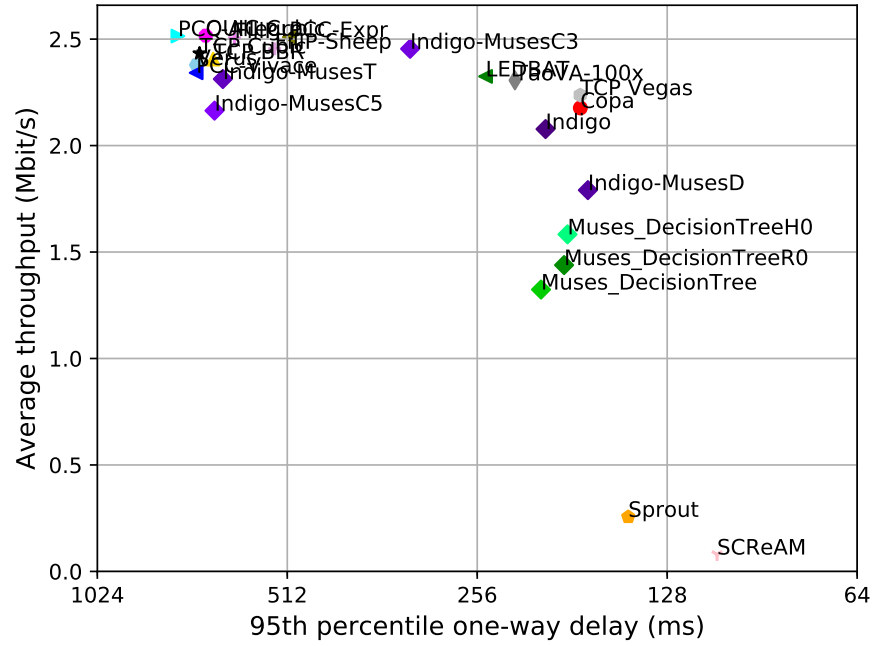
```
Linux 5.0.0-1031-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

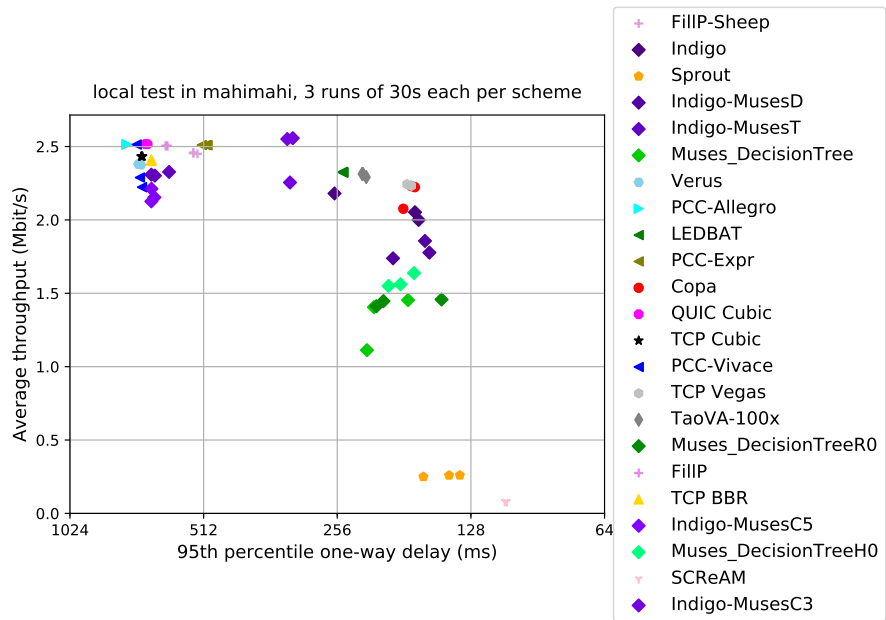
Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

local test in mahimahi, 3 runs of 30s each per scheme
 (mean of all runs by scheme)





5

scheme	# runs	mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
		flow 1	flow 1	flow 1
TCP BBR	3	2.40	671.12	1.65
Copa	3	2.18	175.74	0.39
TCP Cubic	3	2.43	705.20	3.07
FillP	3	2.50	620.70	17.48
FillP-Sheep	3	2.45	536.13	9.48
Indigo	3	2.08	199.53	0.52
Indigo-MusesC3	3	2.46	327.07	0.75
Indigo-MusesC5	3	2.16	667.76	22.95
Indigo-MusesD	3	1.79	170.95	0.15
Indigo-MusesT	3	2.31	647.65	7.03
LEDBAT	3	2.33	248.34	0.69
Muses_DecisionTree	3	1.32	202.83	0.24
Muses_DecisionTreeH0	3	1.58	184.15	0.25
Muses_DecisionTreeR0	3	1.44	186.47	0.20
PCC-Allegro	3	2.51	763.16	85.37
PCC-Expr	3	2.51	508.23	53.07
QUIC Cubic	3	2.52	689.51	5.15
SCReAM	3	0.08	106.70	0.30
Sprout	3	0.26	147.54	0.31
TaoVA-100x	3	2.30	223.09	1.12
TCP Vegas	3	2.24	175.82	0.48
Verus	3	2.38	713.64	10.23
PCC-Vivace	3	2.34	714.00	18.02
WebRTC media	0	N/A	N/A	N/A

Run 1: Statistics of TCP BBR

Start at: 2020-04-16 06:57:10

End at: 2020-04-16 06:57:40

Below is generated by plot.py at 2020-04-16 07:38:33

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.40 Mbit/s (105.8% utilization)

95th percentile per-packet one-way delay: 671.315 ms

Loss rate: 1.57%

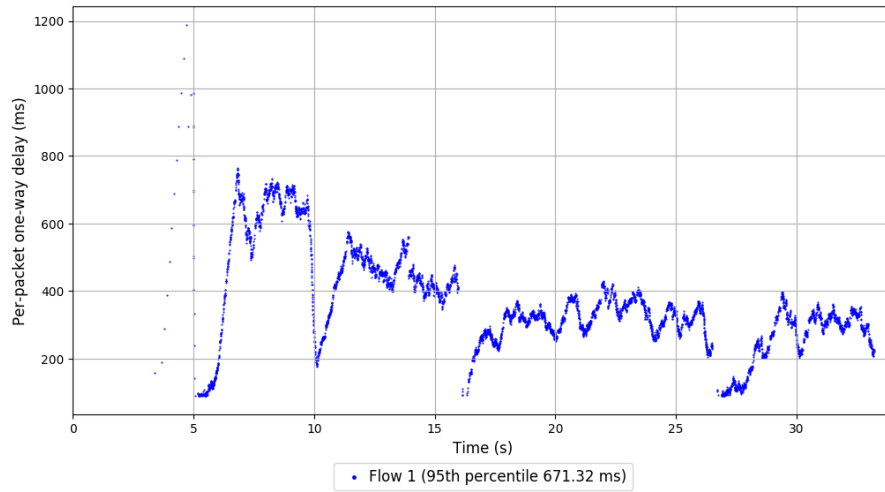
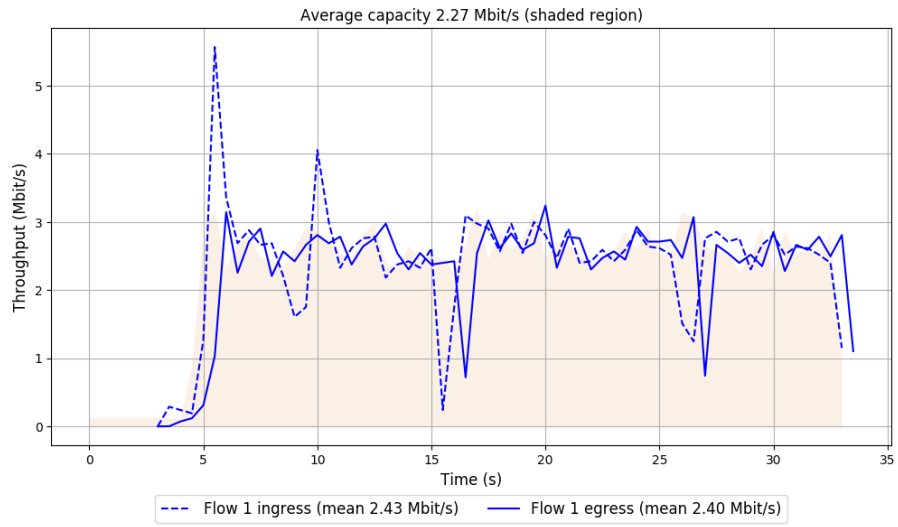
-- Flow 1:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 671.315 ms

Loss rate: 1.57%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2020-04-16 07:11:06

End at: 2020-04-16 07:11:36

Below is generated by plot.py at 2020-04-16 07:38:33

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.40 Mbit/s (105.7% utilization)

95th percentile per-packet one-way delay: 670.512 ms

Loss rate: 1.53%

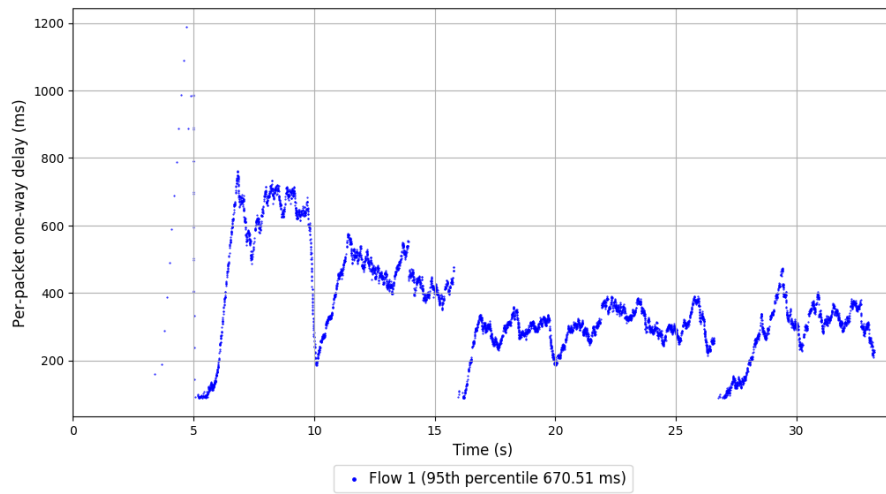
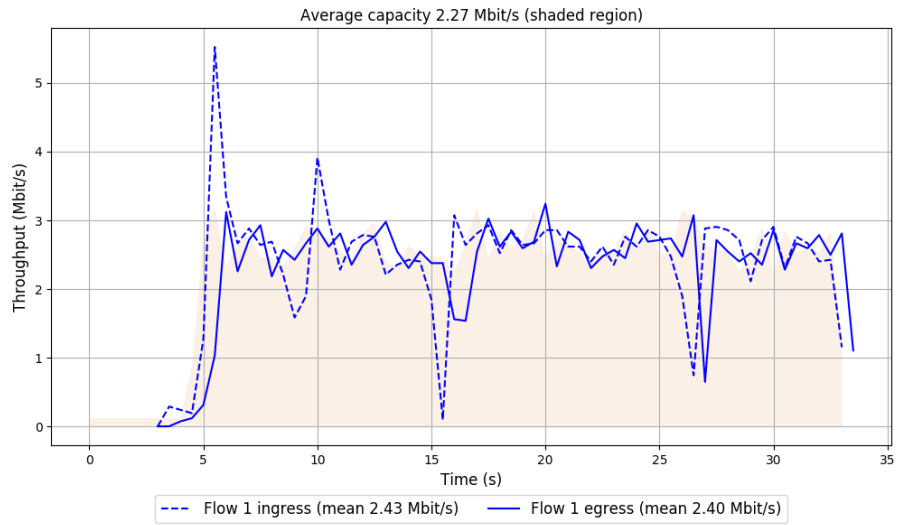
-- Flow 1:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 670.512 ms

Loss rate: 1.53%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2020-04-16 07:25:01

End at: 2020-04-16 07:25:31

Below is generated by plot.py at 2020-04-16 07:38:33

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.41 Mbit/s (106.1% utilization)

95th percentile per-packet one-way delay: 671.537 ms

Loss rate: 1.85%

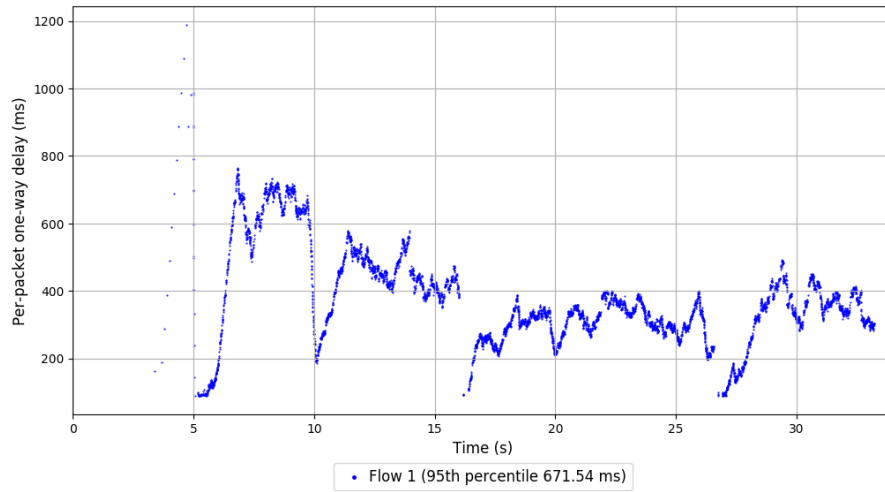
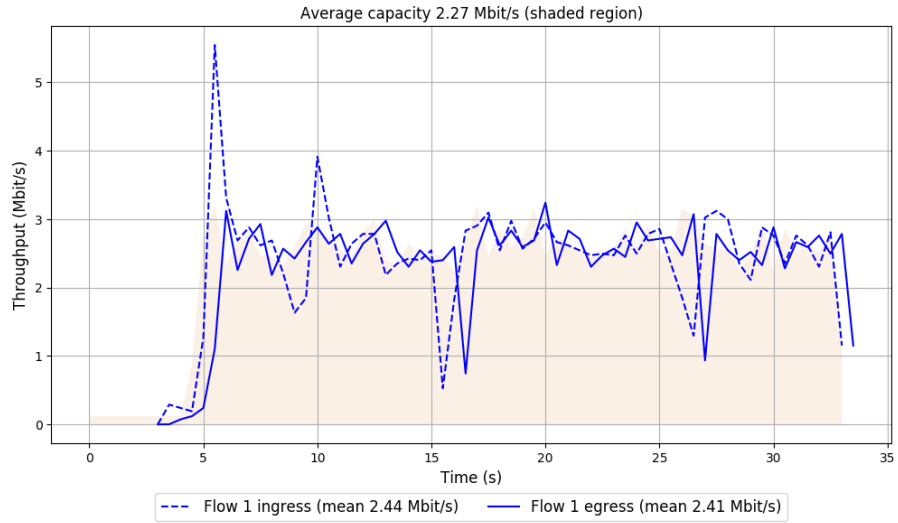
-- Flow 1:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 671.537 ms

Loss rate: 1.85%

Run 3: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2020-04-16 06:57:45

End at: 2020-04-16 06:58:15

Below is generated by plot.py at 2020-04-16 07:38:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.22 Mbit/s (97.9% utilization)

95th percentile per-packet one-way delay: 171.210 ms

Loss rate: 0.41%

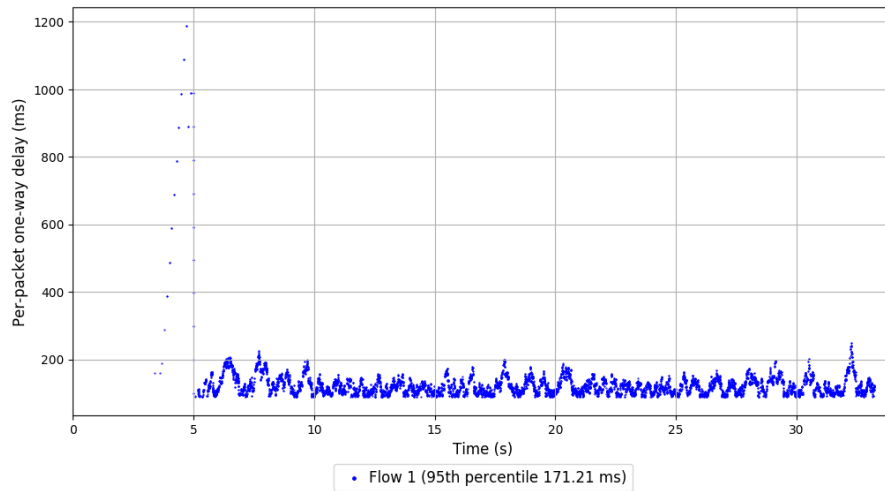
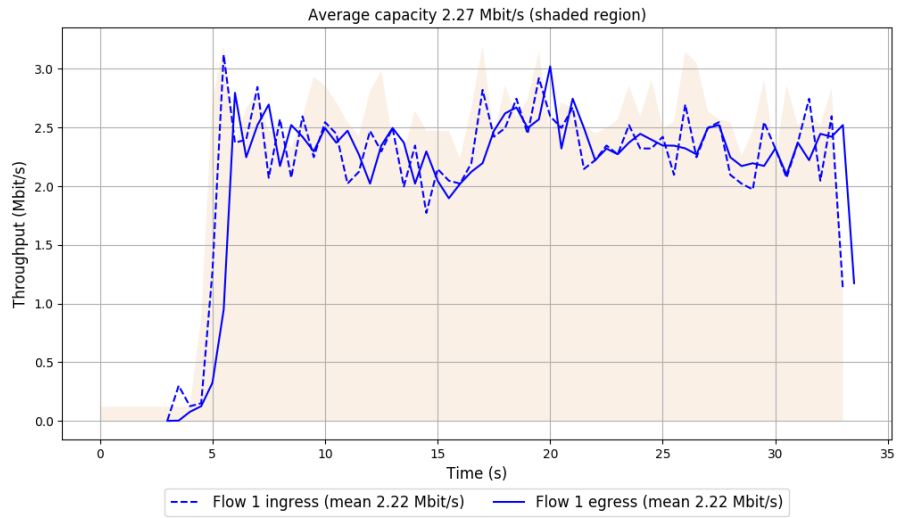
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 171.210 ms

Loss rate: 0.41%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2020-04-16 07:11:41

End at: 2020-04-16 07:12:11

Below is generated by plot.py at 2020-04-16 07:38:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.23 Mbit/s (98.2% utilization)

95th percentile per-packet one-way delay: 174.285 ms

Loss rate: 0.41%

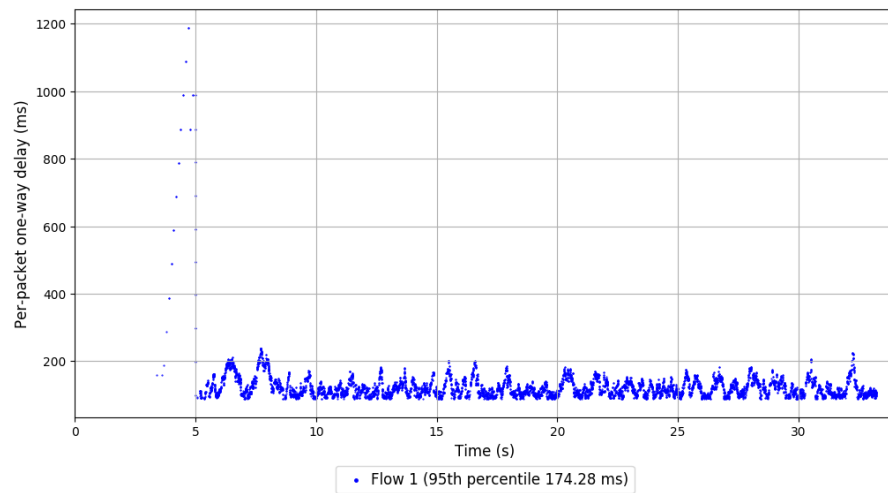
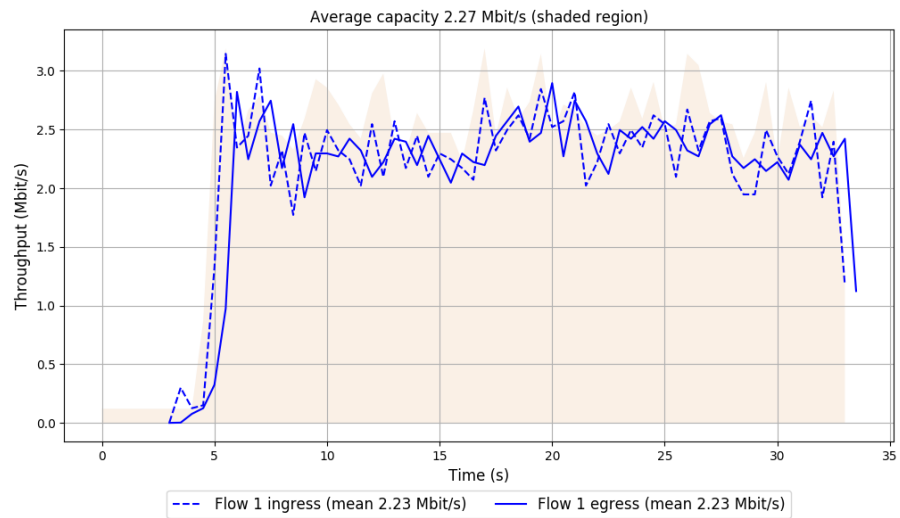
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 174.285 ms

Loss rate: 0.41%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2020-04-16 07:25:36

End at: 2020-04-16 07:26:06

Below is generated by plot.py at 2020-04-16 07:38:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.08 Mbit/s (91.3% utilization)

95th percentile per-packet one-way delay: 181.719 ms

Loss rate: 0.36%

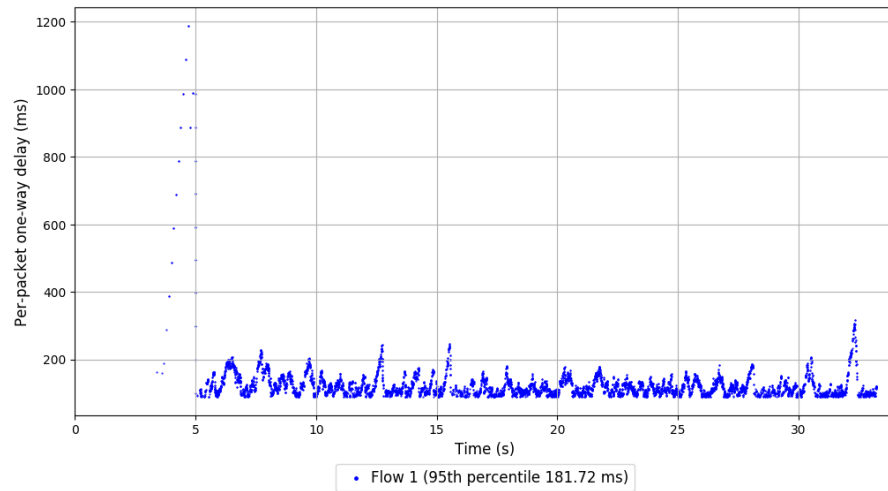
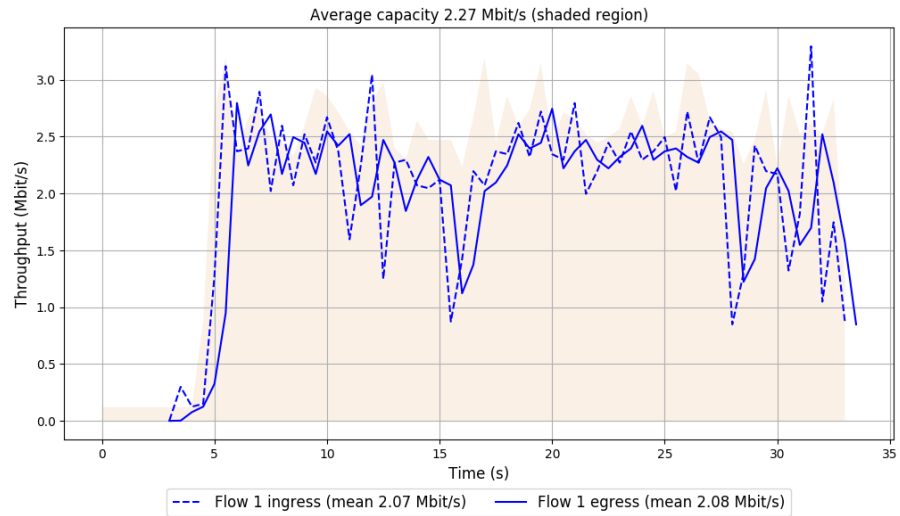
-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 181.719 ms

Loss rate: 0.36%

Run 3: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2020-04-16 07:05:17

End at: 2020-04-16 07:05:47

Below is generated by plot.py at 2020-04-16 07:38:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.43 Mbit/s (107.1% utilization)

95th percentile per-packet one-way delay: 707.728 ms

Loss rate: 3.40%

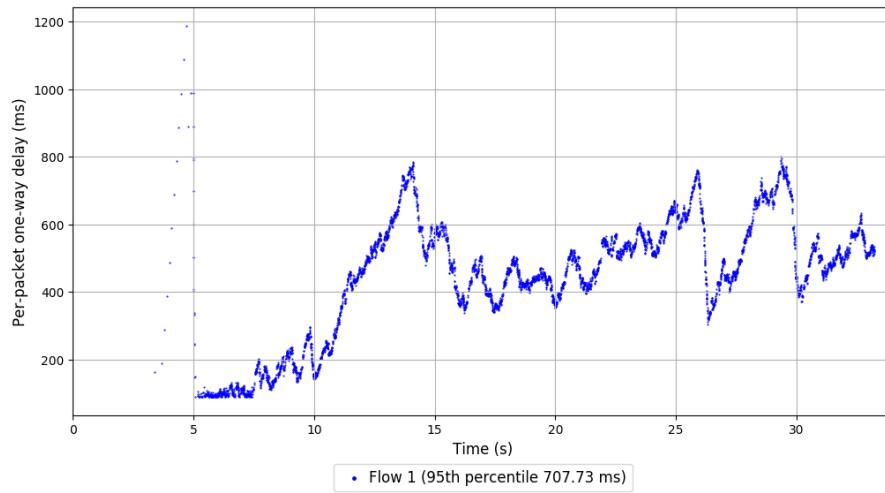
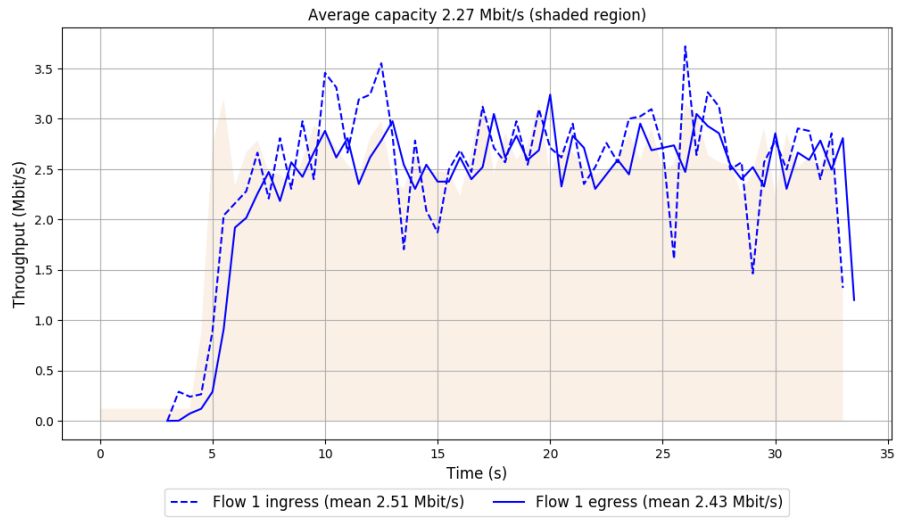
-- Flow 1:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 707.728 ms

Loss rate: 3.40%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2020-04-16 07:19:13

End at: 2020-04-16 07:19:43

Below is generated by plot.py at 2020-04-16 07:38:35

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.43 Mbit/s (107.1% utilization)

95th percentile per-packet one-way delay: 703.040 ms

Loss rate: 2.87%

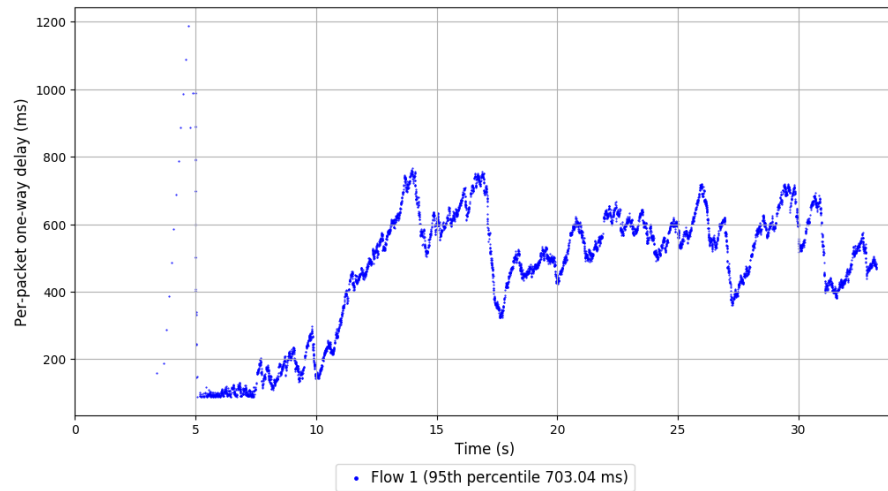
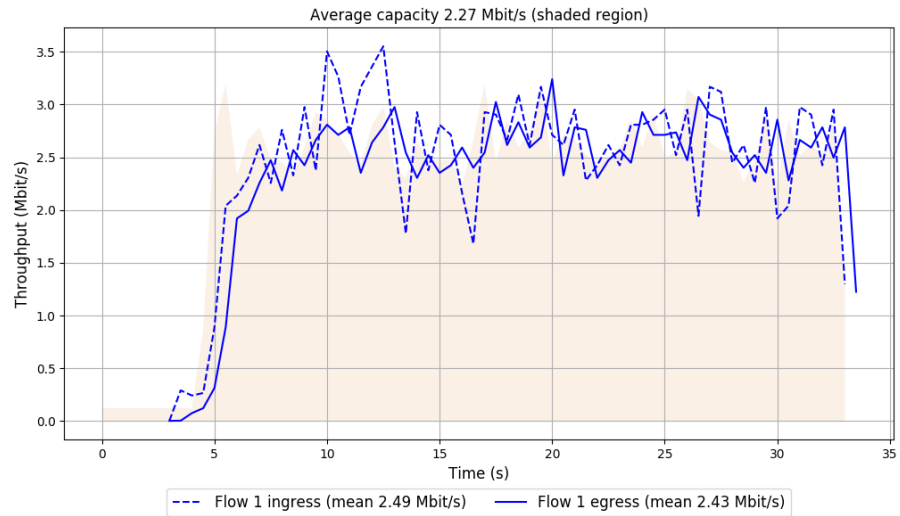
-- Flow 1:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 703.040 ms

Loss rate: 2.87%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2020-04-16 07:33:08

End at: 2020-04-16 07:33:38

Below is generated by plot.py at 2020-04-16 07:38:42

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.43 Mbit/s (107.1% utilization)

95th percentile per-packet one-way delay: 704.829 ms

Loss rate: 2.94%

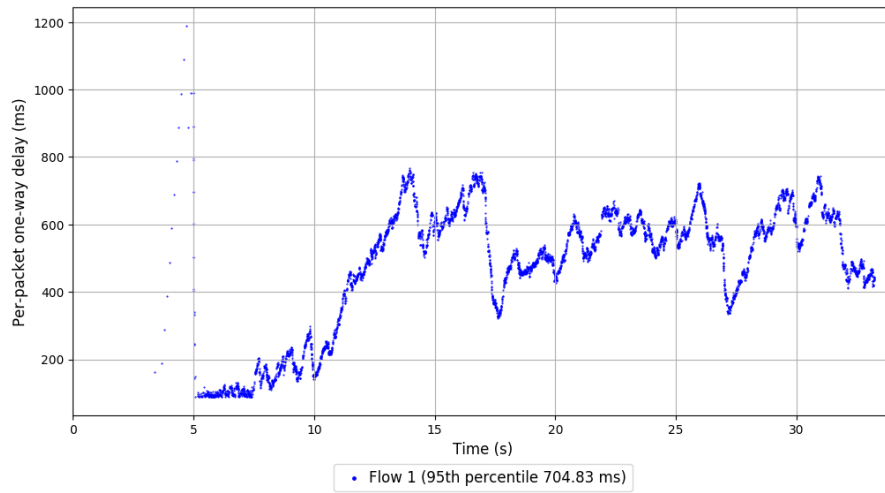
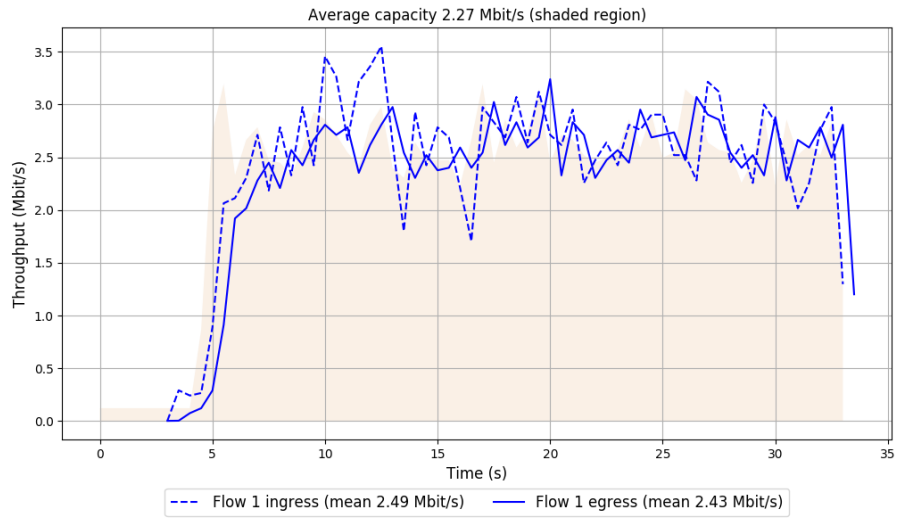
-- Flow 1:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 704.829 ms

Loss rate: 2.94%

Run 3: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2020-04-16 07:01:49

End at: 2020-04-16 07:02:19

Below is generated by plot.py at 2020-04-16 07:38:43

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.50 Mbit/s (110.2% utilization)

95th percentile per-packet one-way delay: 621.168 ms

Loss rate: 18.48%

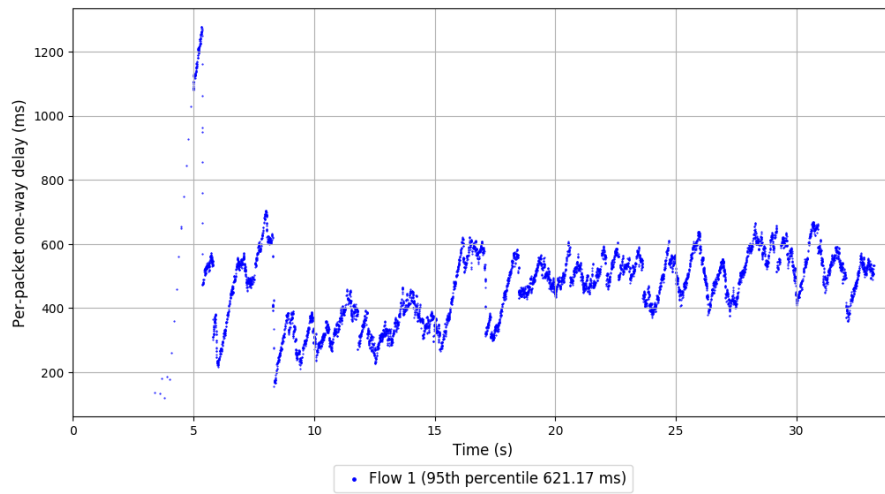
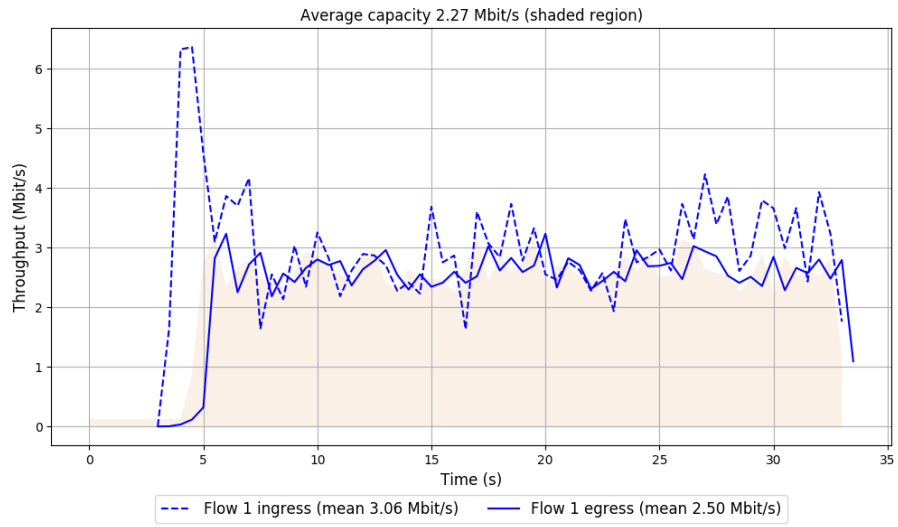
-- Flow 1:

Average throughput: 2.50 Mbit/s

95th percentile per-packet one-way delay: 621.168 ms

Loss rate: 18.48%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2020-04-16 07:15:44

End at: 2020-04-16 07:16:14

Below is generated by plot.py at 2020-04-16 07:38:43

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.50 Mbit/s (110.2% utilization)

95th percentile per-packet one-way delay: 623.405 ms

Loss rate: 18.11%

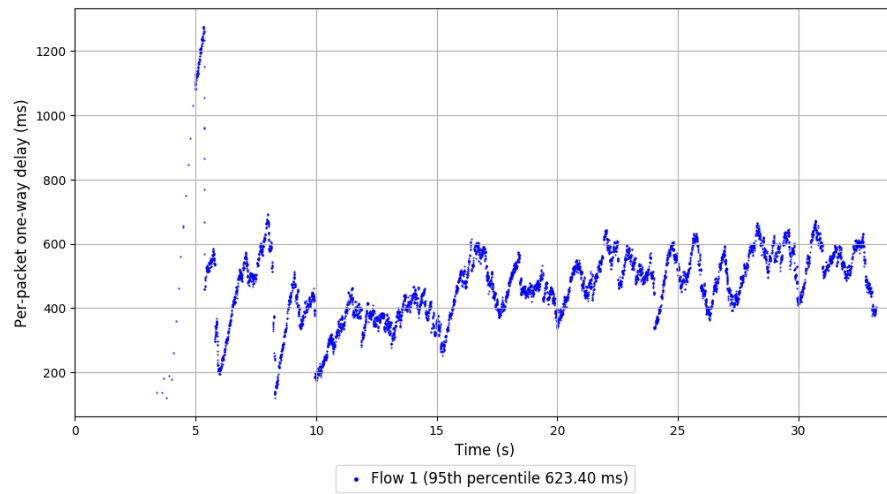
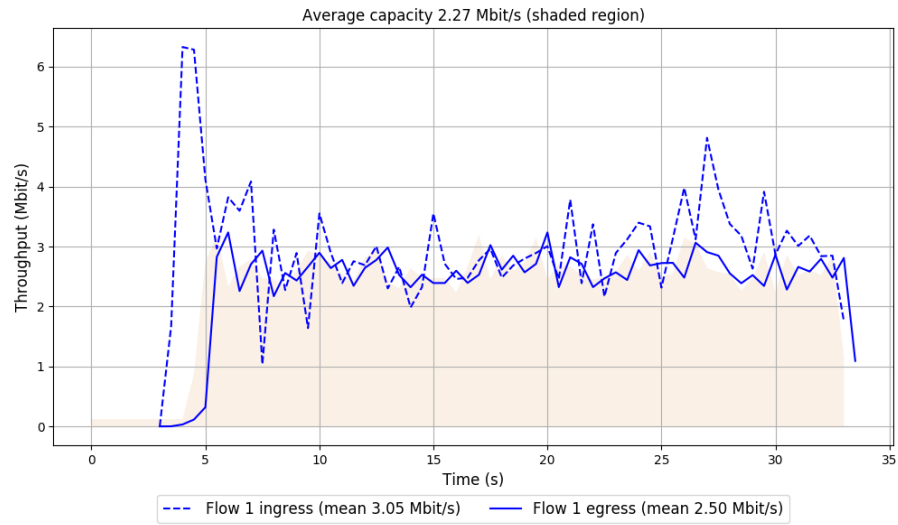
-- Flow 1:

Average throughput: 2.50 Mbit/s

95th percentile per-packet one-way delay: 623.405 ms

Loss rate: 18.11%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2020-04-16 07:29:40

End at: 2020-04-16 07:30:10

Below is generated by plot.py at 2020-04-16 07:38:45

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.50 Mbit/s (110.2% utilization)

95th percentile per-packet one-way delay: 617.529 ms

Loss rate: 15.85%

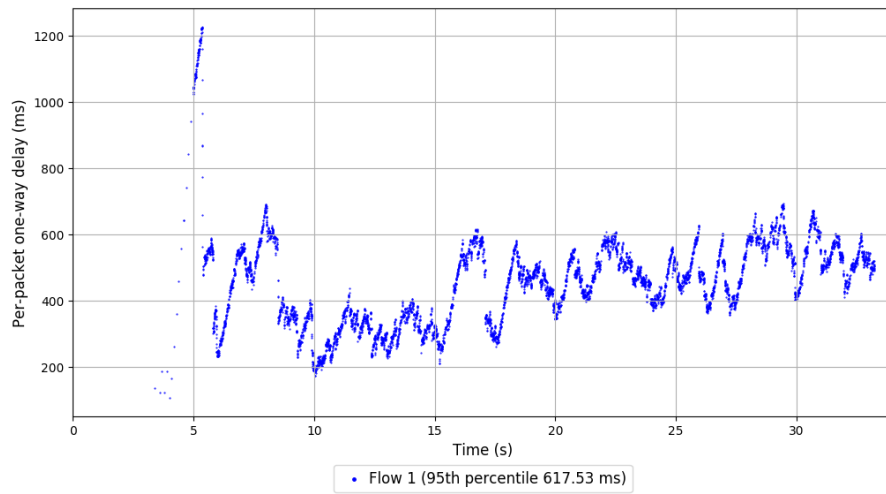
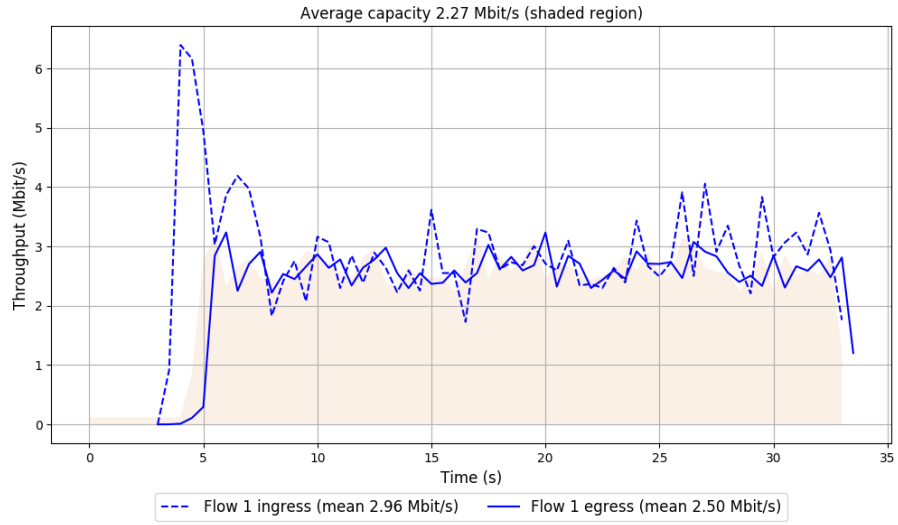
-- Flow 1:

Average throughput: 2.50 Mbit/s

95th percentile per-packet one-way delay: 617.529 ms

Loss rate: 15.85%

Run 3: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2020-04-16 07:04:08

End at: 2020-04-16 07:04:38

Below is generated by plot.py at 2020-04-16 07:38:45

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.45 Mbit/s (108.0% utilization)

95th percentile per-packet one-way delay: 540.361 ms

Loss rate: 9.47%

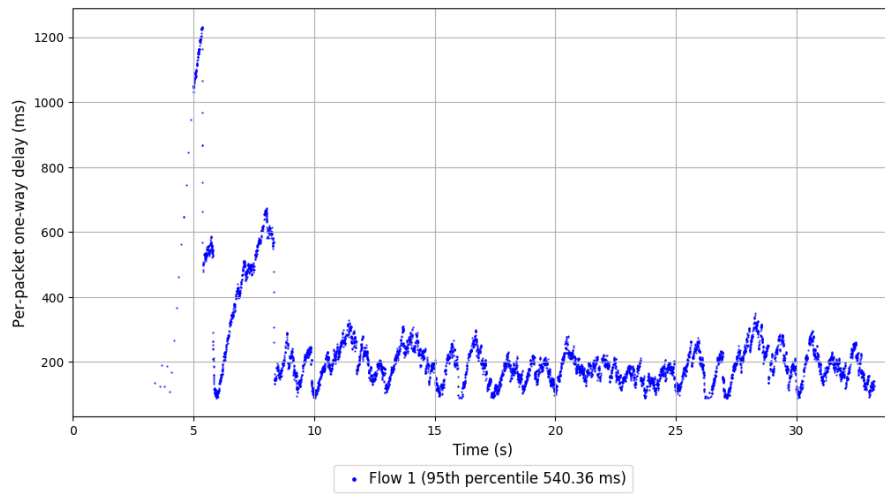
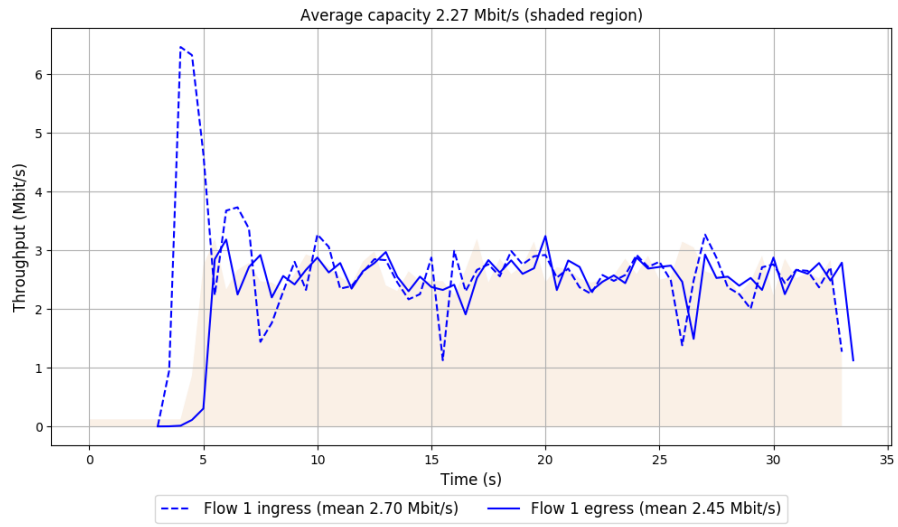
-- Flow 1:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 540.361 ms

Loss rate: 9.47%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2020-04-16 07:18:03

End at: 2020-04-16 07:18:33

Below is generated by plot.py at 2020-04-16 07:38:45

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.46 Mbit/s (108.2% utilization)

95th percentile per-packet one-way delay: 539.601 ms

Loss rate: 9.79%

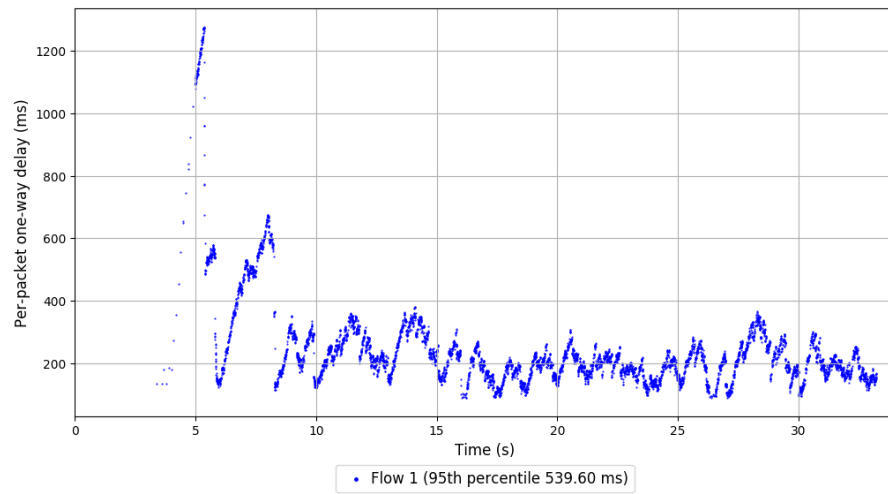
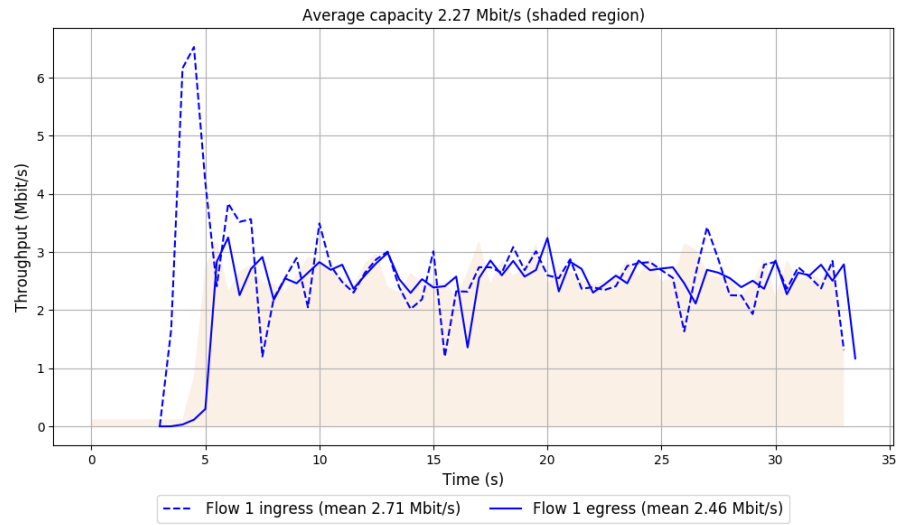
-- Flow 1:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 539.601 ms

Loss rate: 9.79%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2020-04-16 07:31:59

End at: 2020-04-16 07:32:29

Below is generated by plot.py at 2020-04-16 07:38:46

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.45 Mbit/s (107.8% utilization)

95th percentile per-packet one-way delay: 528.436 ms

Loss rate: 9.18%

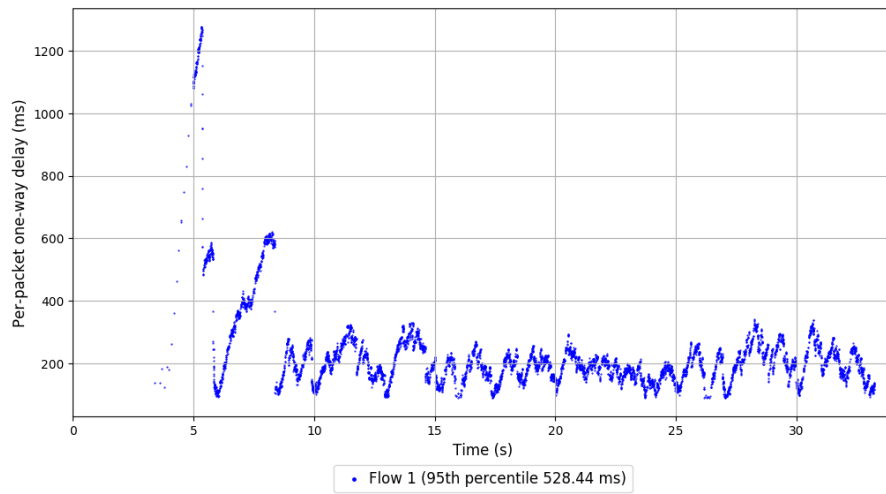
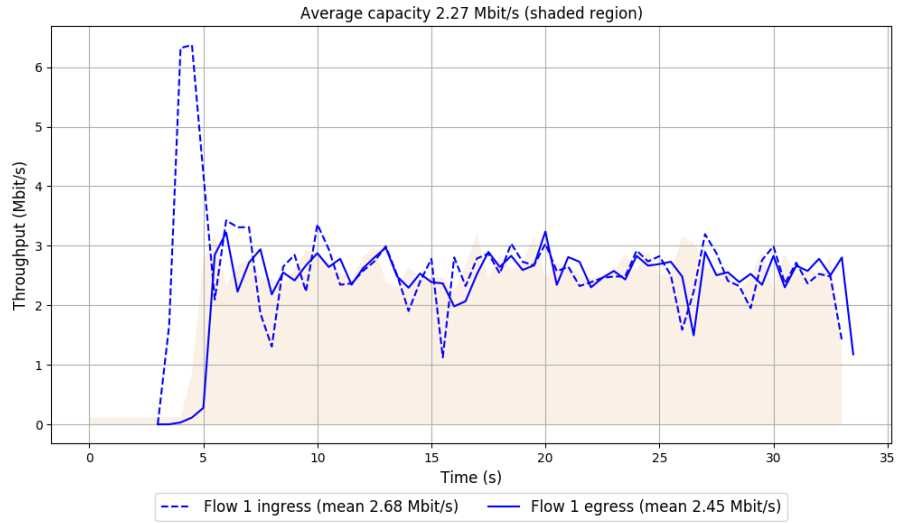
-- Flow 1:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 528.436 ms

Loss rate: 9.18%

Run 3: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2020-04-16 07:00:39

End at: 2020-04-16 07:01:09

Below is generated by plot.py at 2020-04-16 07:38:46

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.05 Mbit/s (90.3% utilization)

95th percentile per-packet one-way delay: 171.061 ms

Loss rate: 0.43%

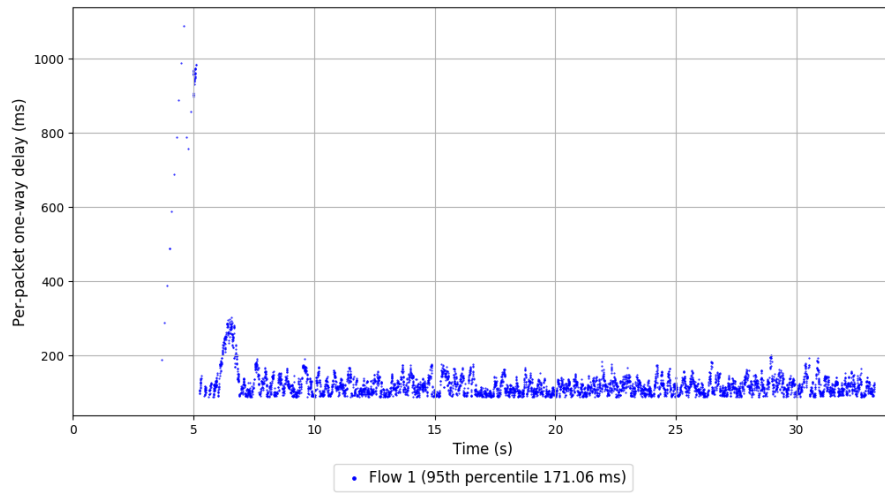
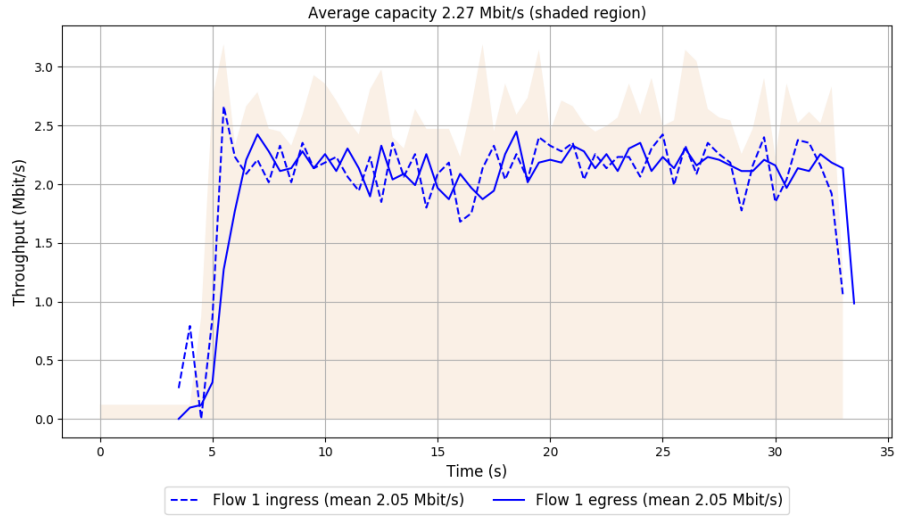
-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 171.061 ms

Loss rate: 0.43%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2020-04-16 07:14:35

End at: 2020-04-16 07:15:05

Below is generated by plot.py at 2020-04-16 07:38:51

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.18 Mbit/s (96.0% utilization)

95th percentile per-packet one-way delay: 259.652 ms

Loss rate: 0.63%

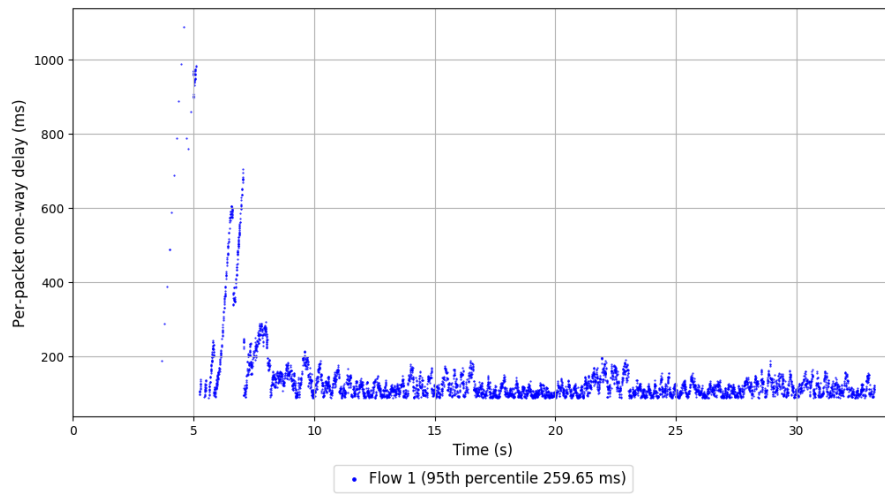
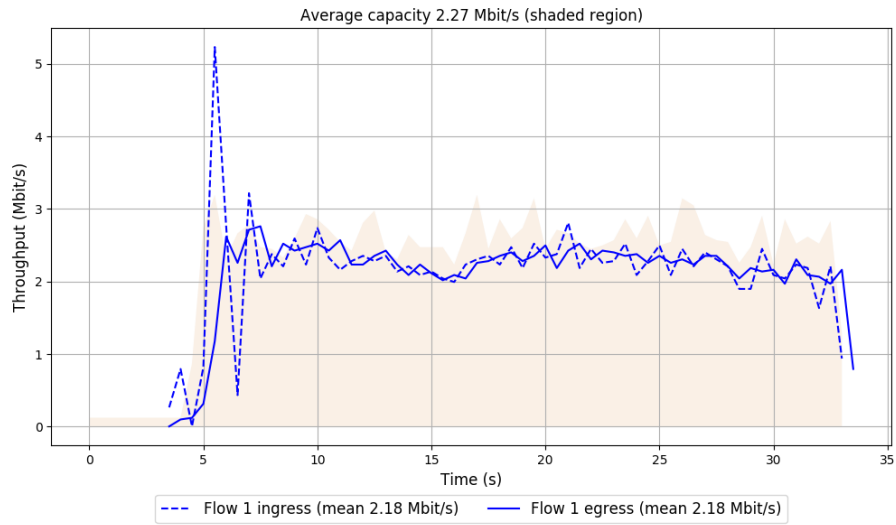
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 259.652 ms

Loss rate: 0.63%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2020-04-16 07:28:30

End at: 2020-04-16 07:29:00

Below is generated by plot.py at 2020-04-16 07:38:52

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.00 Mbit/s (88.0% utilization)

95th percentile per-packet one-way delay: 167.864 ms

Loss rate: 0.49%

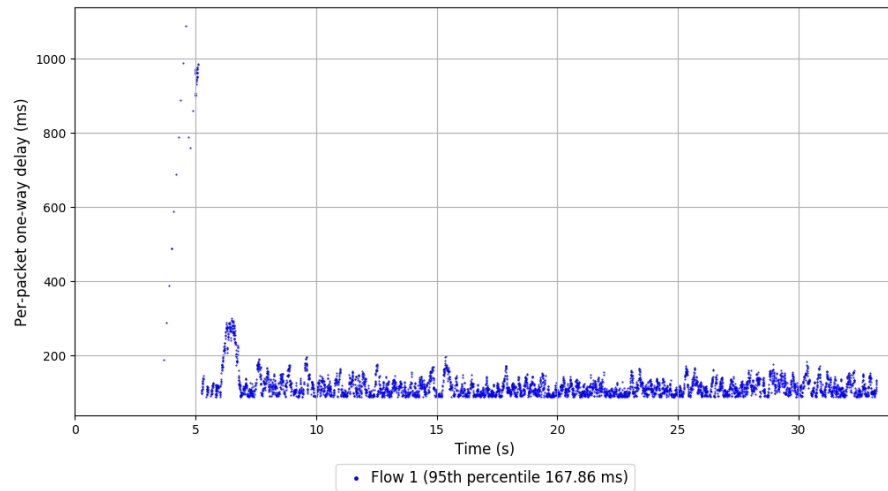
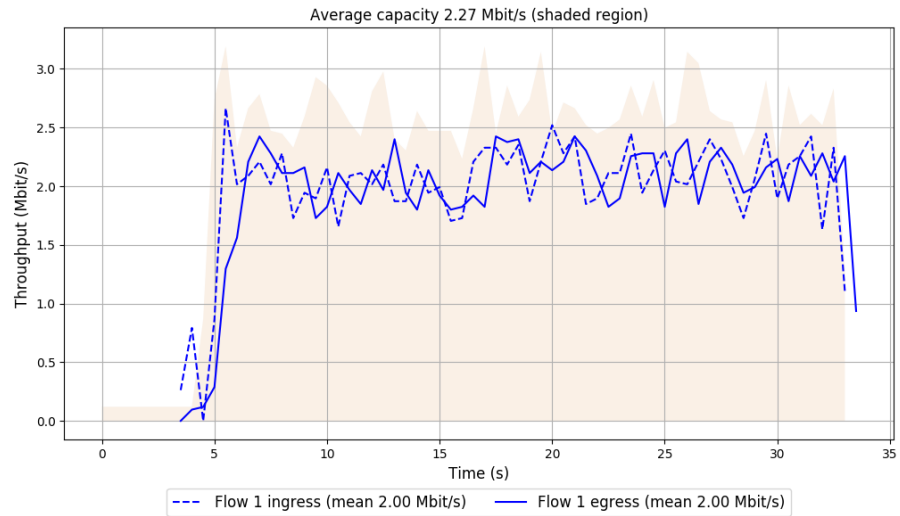
-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 167.864 ms

Loss rate: 0.49%

Run 3: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2020-04-16 06:59:30

End at: 2020-04-16 07:00:00

Below is generated by plot.py at 2020-04-16 07:38:54

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.26 Mbit/s (99.2% utilization)

95th percentile per-packet one-way delay: 327.111 ms

Loss rate: 0.33%

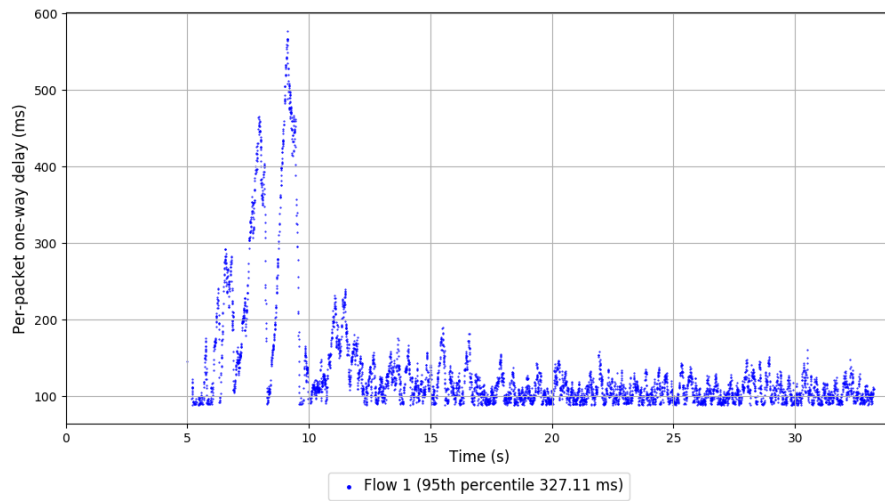
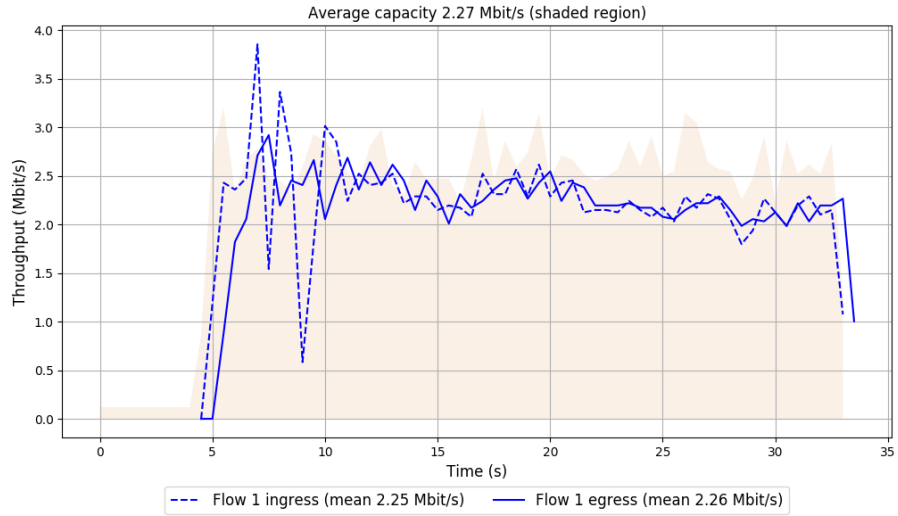
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 327.111 ms

Loss rate: 0.33%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2020-04-16 07:13:25

End at: 2020-04-16 07:13:55

Below is generated by plot.py at 2020-04-16 07:38:54

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.55 Mbit/s (112.3% utilization)

95th percentile per-packet one-way delay: 331.723 ms

Loss rate: 0.98%

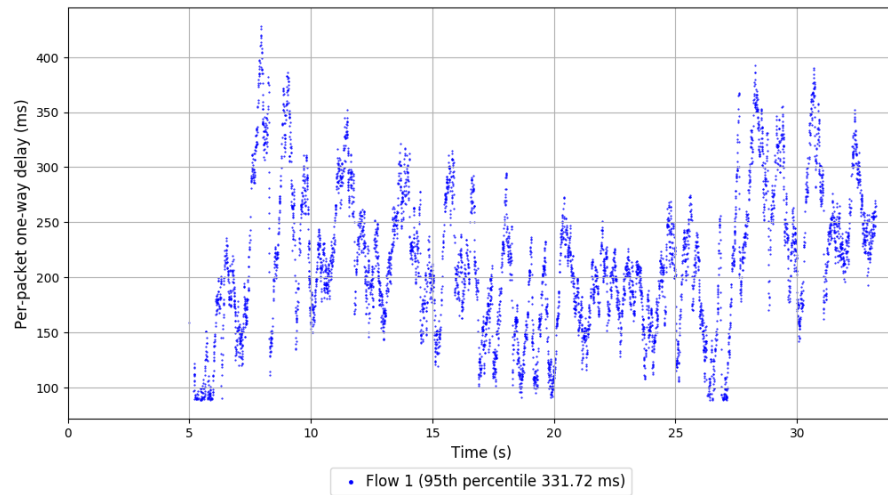
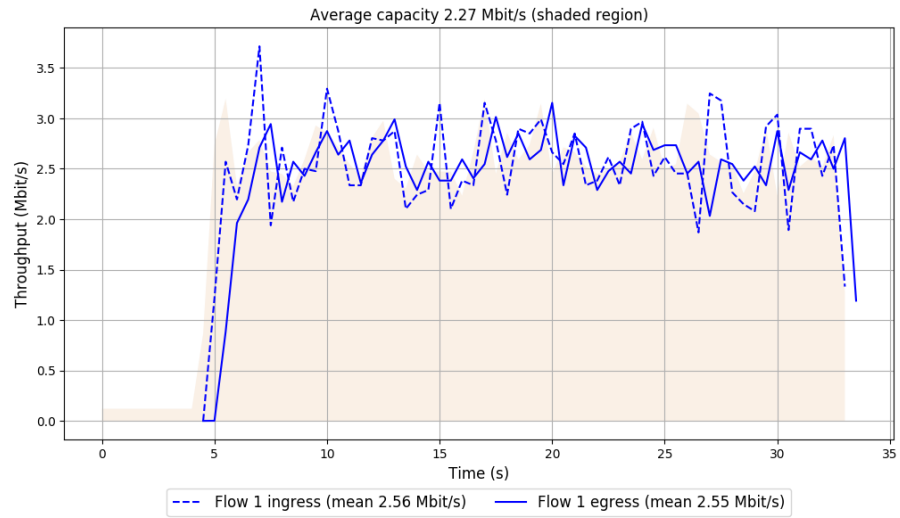
-- Flow 1:

Average throughput: 2.55 Mbit/s

95th percentile per-packet one-way delay: 331.723 ms

Loss rate: 0.98%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2020-04-16 07:27:20

End at: 2020-04-16 07:27:50

Below is generated by plot.py at 2020-04-16 07:38:55

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.56 Mbit/s (112.5% utilization)

95th percentile per-packet one-way delay: 322.386 ms

Loss rate: 0.93%

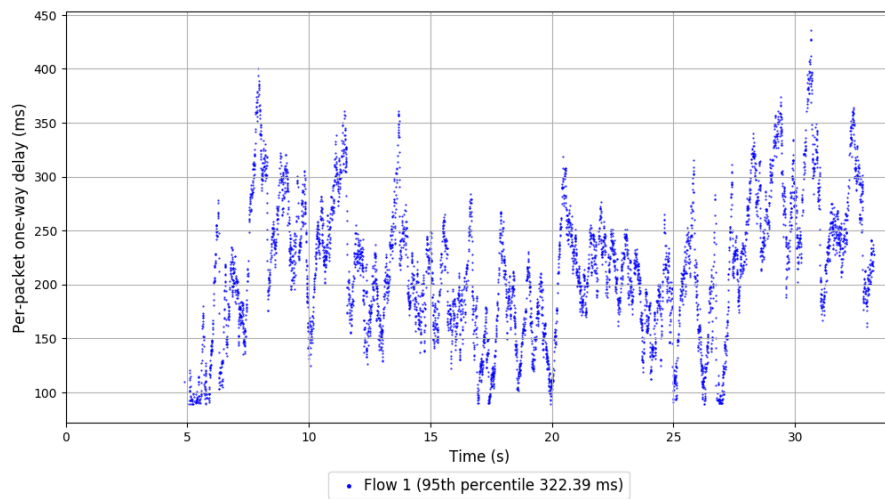
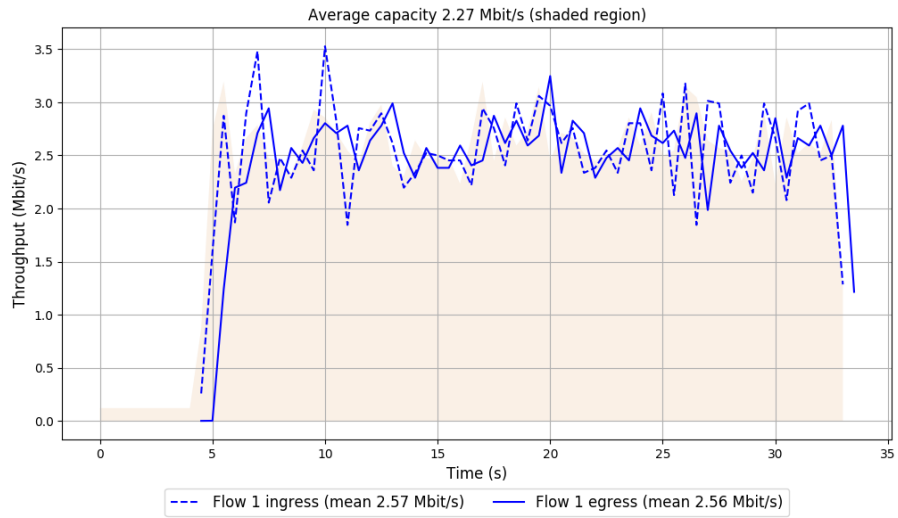
-- Flow 1:

Average throughput: 2.56 Mbit/s

95th percentile per-packet one-way delay: 322.386 ms

Loss rate: 0.93%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2020-04-16 07:05:52

End at: 2020-04-16 07:06:22

Below is generated by plot.py at 2020-04-16 07:38:56

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.21 Mbit/s (97.3% utilization)

95th percentile per-packet one-way delay: 671.000 ms

Loss rate: 25.34%

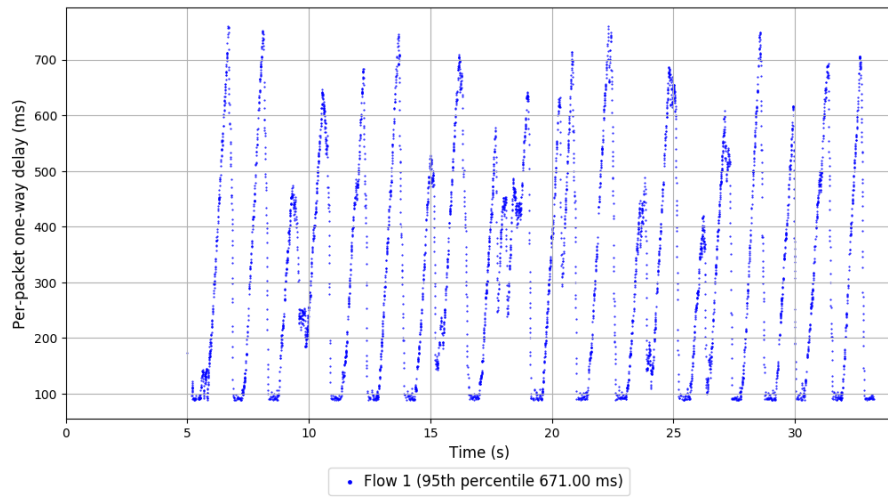
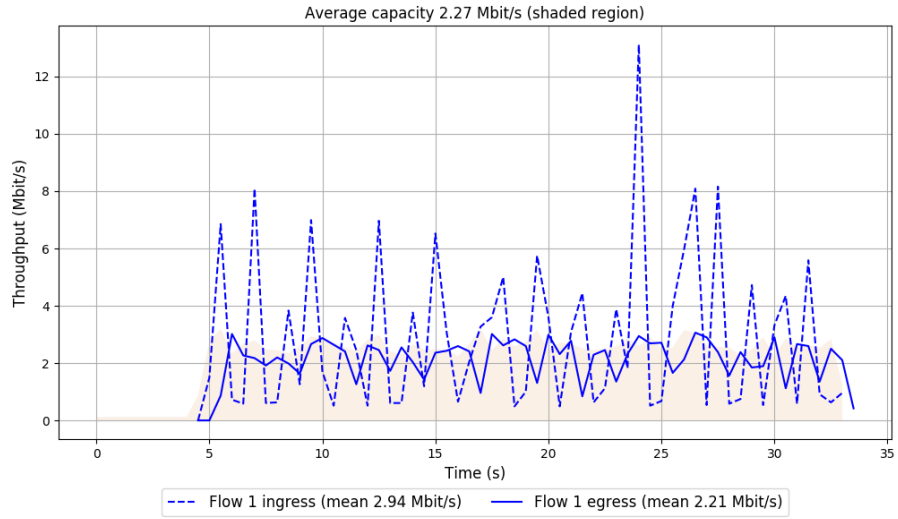
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 671.000 ms

Loss rate: 25.34%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2020-04-16 07:19:48

End at: 2020-04-16 07:20:18

Below is generated by plot.py at 2020-04-16 07:38:56

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.15 Mbit/s (94.8% utilization)

95th percentile per-packet one-way delay: 660.888 ms

Loss rate: 21.89%

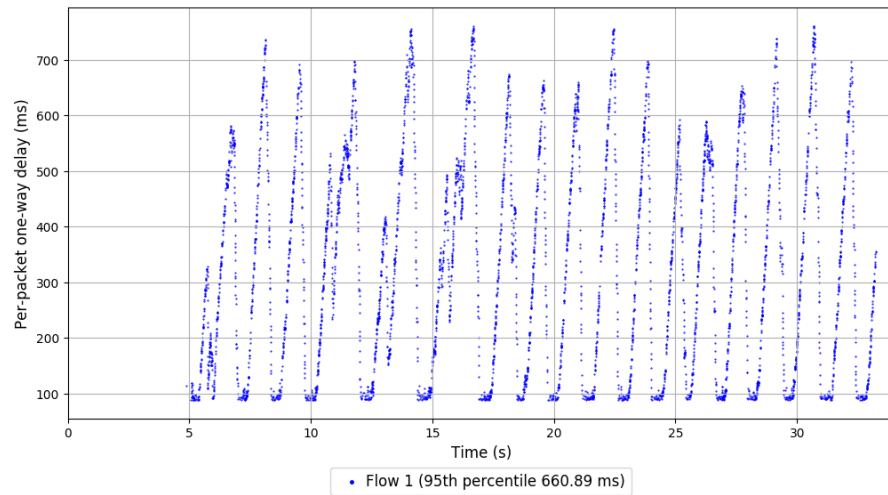
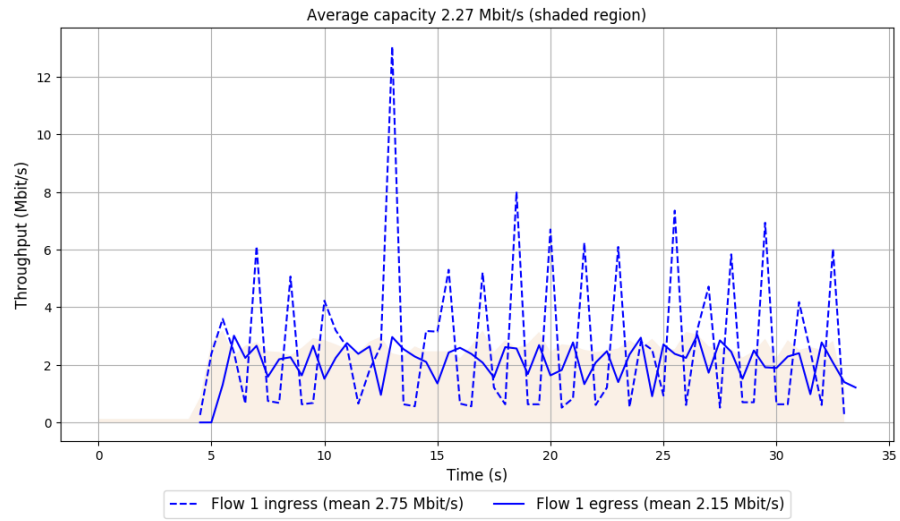
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 660.888 ms

Loss rate: 21.89%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2020-04-16 07:33:43

End at: 2020-04-16 07:34:13

Below is generated by plot.py at 2020-04-16 07:38:57

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.13 Mbit/s (93.6% utilization)

95th percentile per-packet one-way delay: 671.384 ms

Loss rate: 21.63%

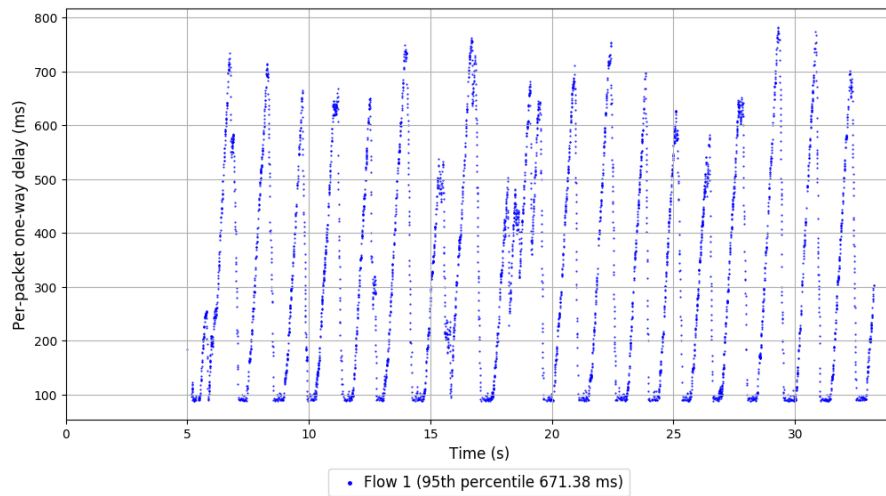
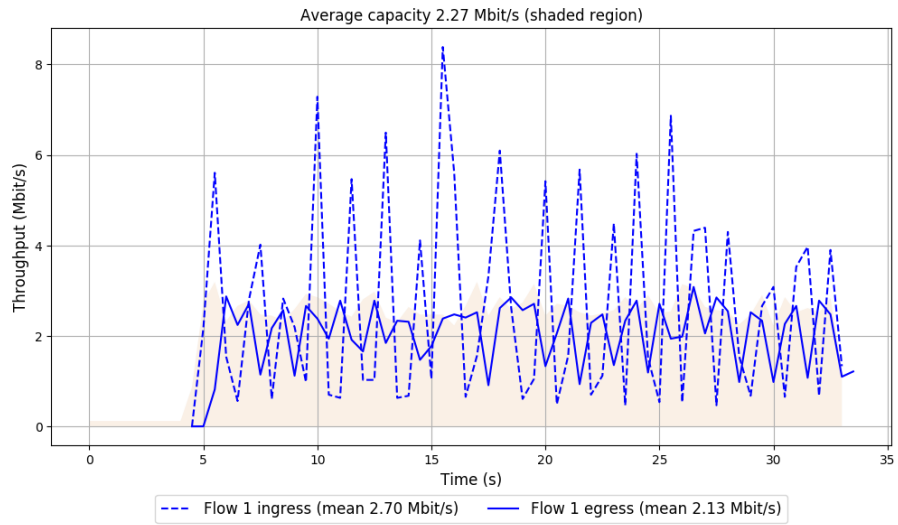
-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 671.384 ms

Loss rate: 21.63%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2020-04-16 07:02:58

End at: 2020-04-16 07:03:28

Below is generated by plot.py at 2020-04-16 07:38:59

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 1.74 Mbit/s (76.5% utilization)

95th percentile per-packet one-way delay: 191.673 ms

Loss rate: 0.14%

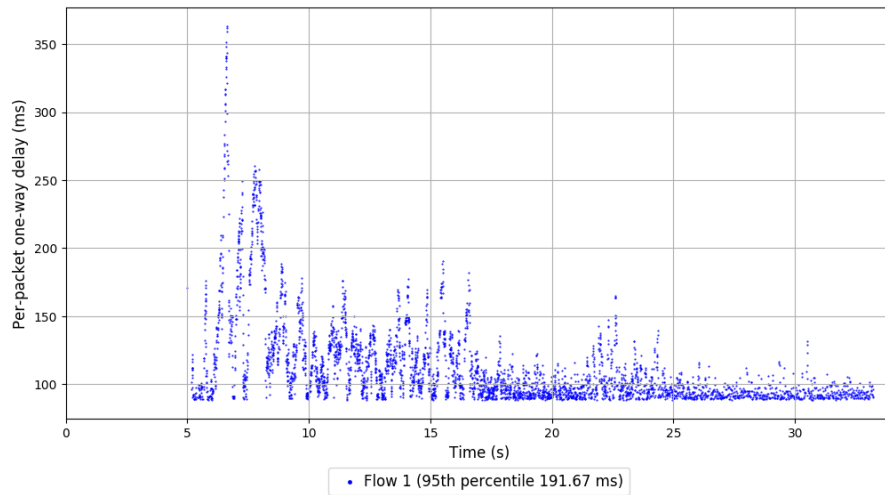
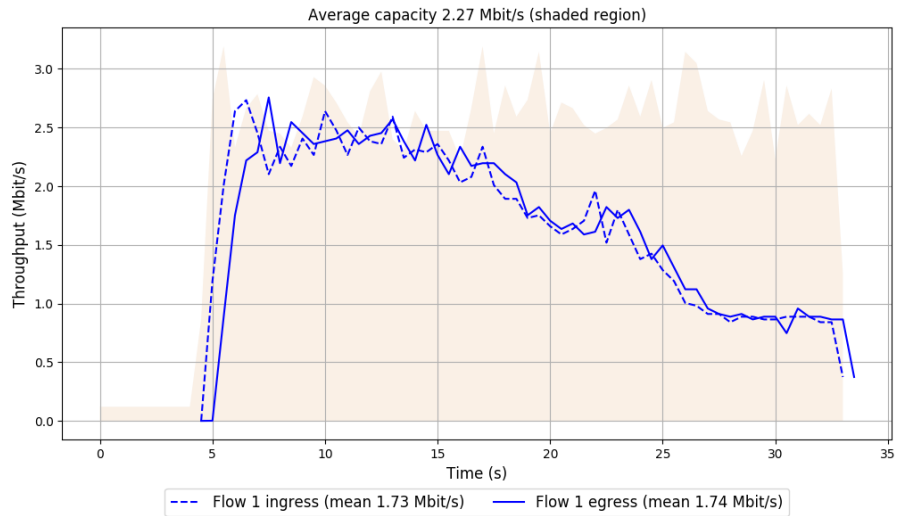
-- Flow 1:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 191.673 ms

Loss rate: 0.14%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2020-04-16 07:16:54

End at: 2020-04-16 07:17:24

Below is generated by plot.py at 2020-04-16 07:39:00

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 1.86 Mbit/s (81.7% utilization)

95th percentile per-packet one-way delay: 162.425 ms

Loss rate: 0.16%

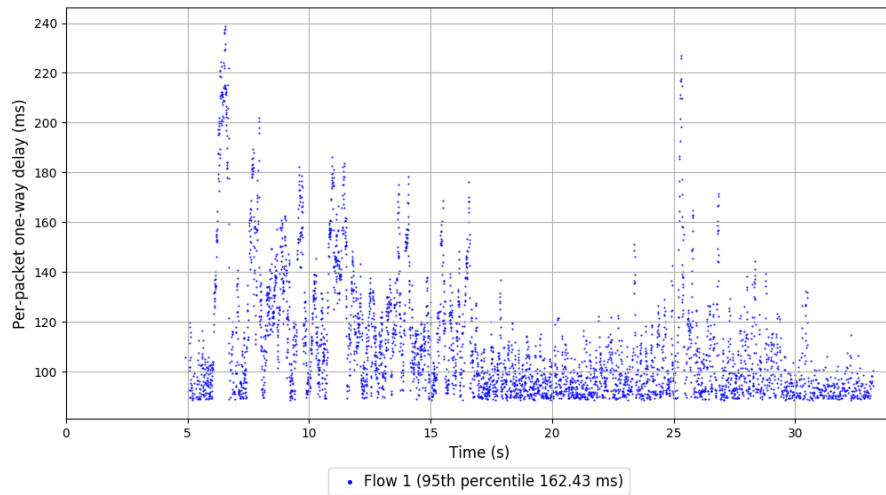
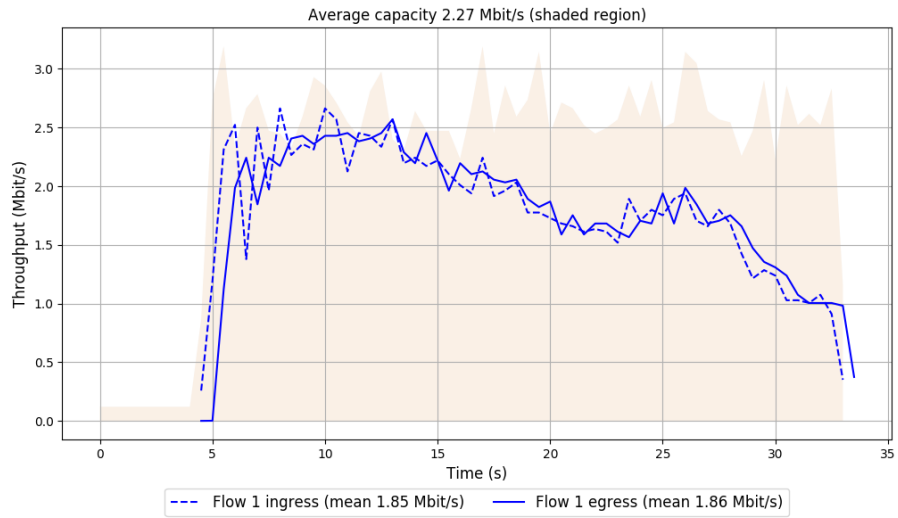
-- Flow 1:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 162.425 ms

Loss rate: 0.16%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2020-04-16 07:30:49

End at: 2020-04-16 07:31:19

Below is generated by plot.py at 2020-04-16 07:39:02

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 1.78 Mbit/s (78.2% utilization)

95th percentile per-packet one-way delay: 158.738 ms

Loss rate: 0.16%

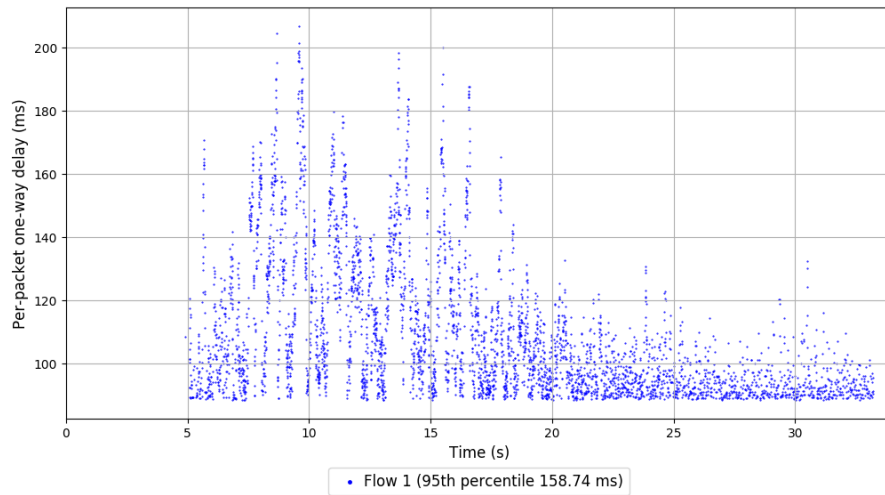
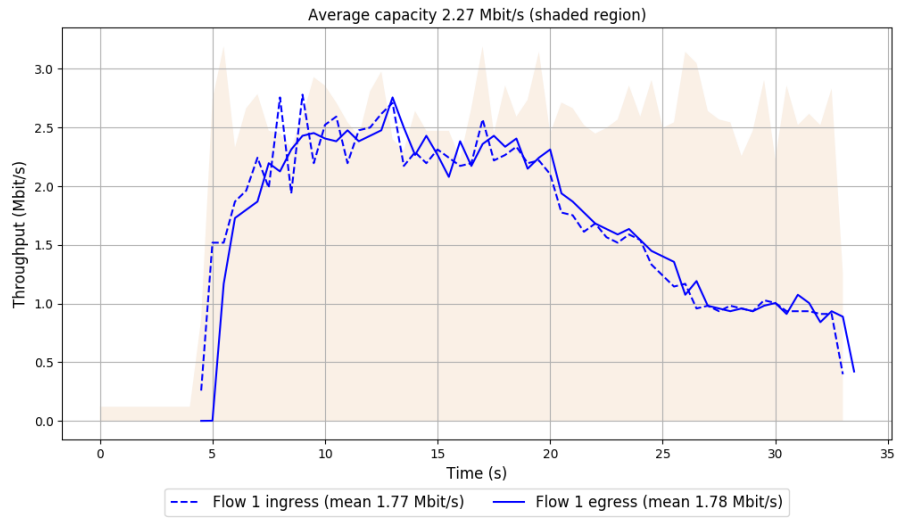
-- Flow 1:

Average throughput: 1.78 Mbit/s

95th percentile per-packet one-way delay: 158.738 ms

Loss rate: 0.16%

Run 3: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MuseST

Start at: 2020-04-16 07:04:43

End at: 2020-04-16 07:05:13

Below is generated by plot.py at 2020-04-16 07:39:05

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.31 Mbit/s (101.6% utilization)

95th percentile per-packet one-way delay: 671.386 ms

Loss rate: 9.10%

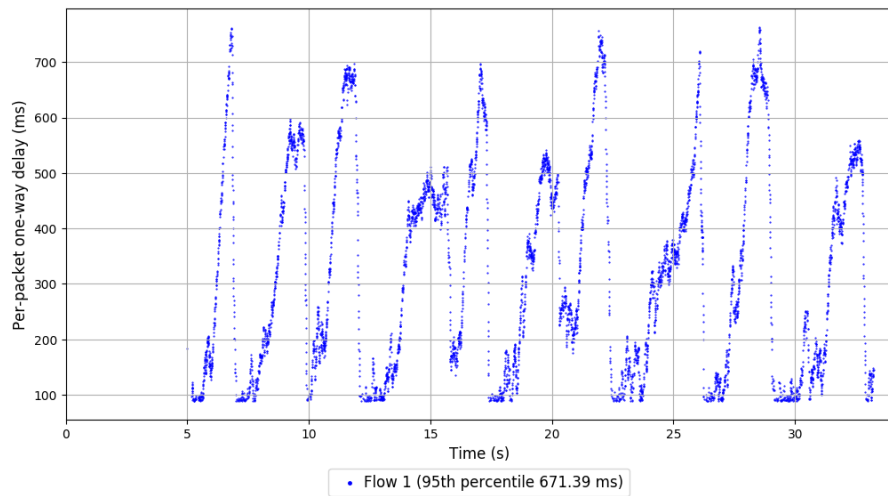
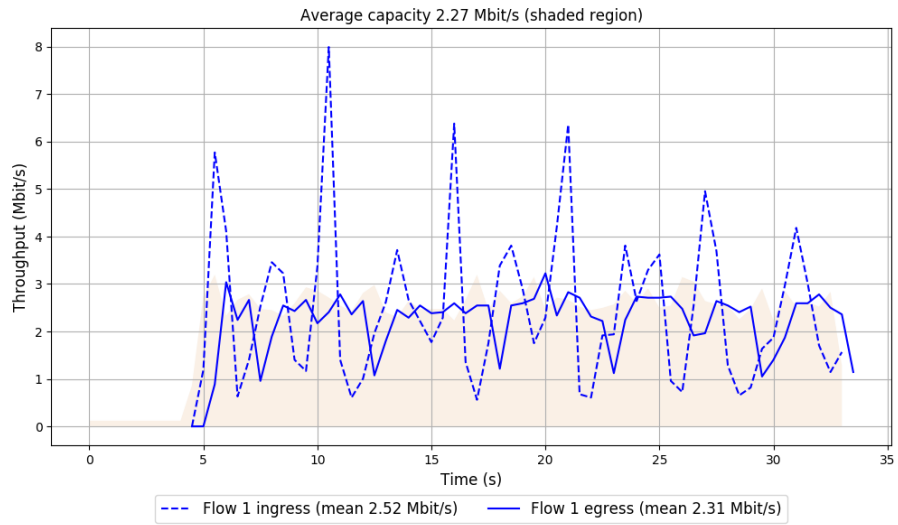
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 671.386 ms

Loss rate: 9.10%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MuseST

Start at: 2020-04-16 07:18:38

End at: 2020-04-16 07:19:08

Below is generated by plot.py at 2020-04-16 07:39:05

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.33 Mbit/s (102.4% utilization)

95th percentile per-packet one-way delay: 612.429 ms

Loss rate: 6.35%

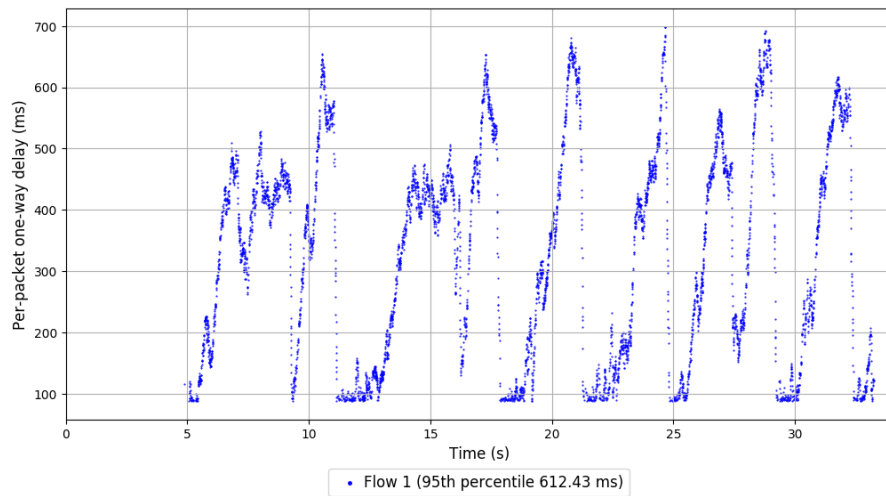
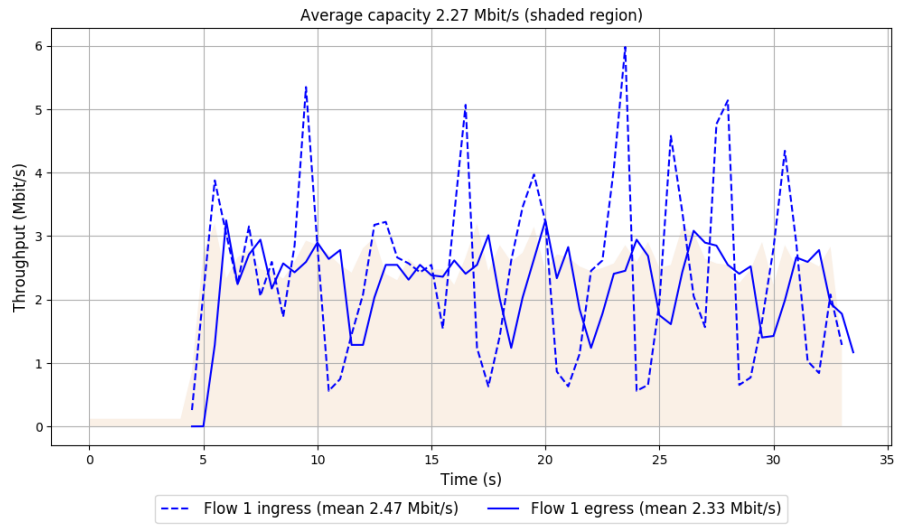
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 612.429 ms

Loss rate: 6.35%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MuseST

Start at: 2020-04-16 07:32:33

End at: 2020-04-16 07:33:03

Below is generated by plot.py at 2020-04-16 07:39:06

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.30 Mbit/s (101.3% utilization)

95th percentile per-packet one-way delay: 659.135 ms

Loss rate: 5.63%

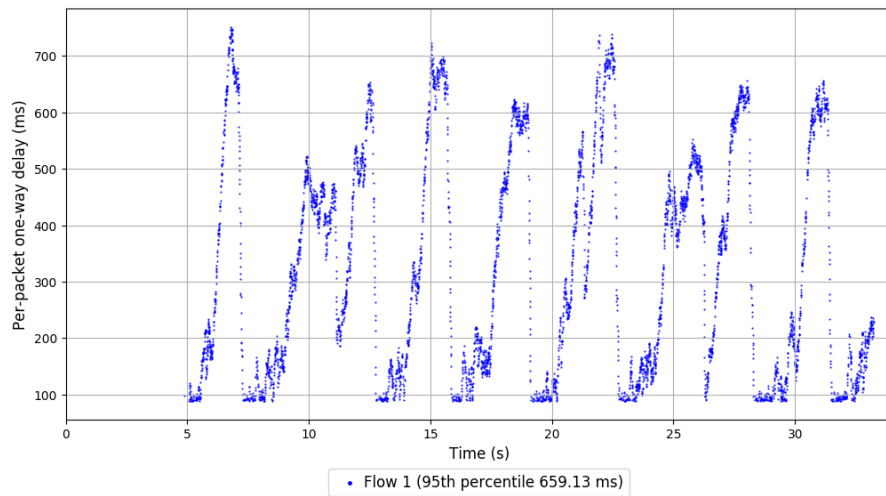
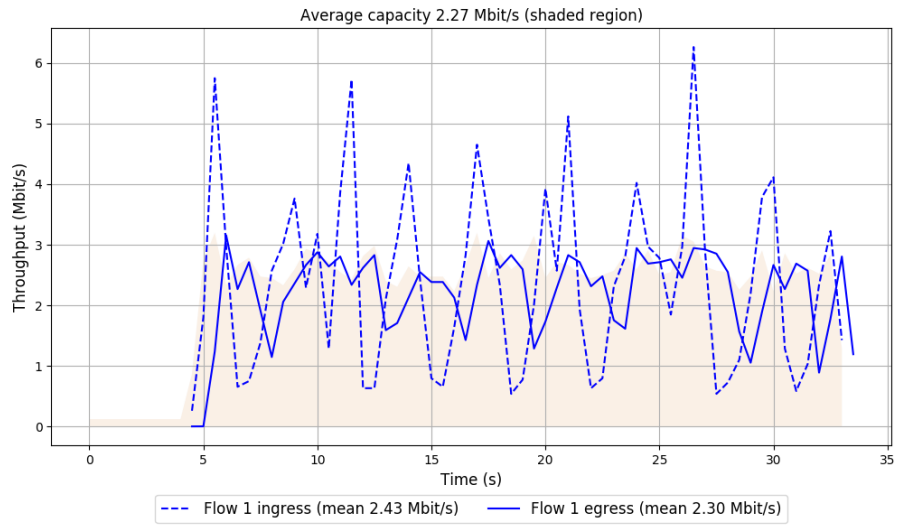
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 659.135 ms

Loss rate: 5.63%

Run 3: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2020-04-16 07:08:11

End at: 2020-04-16 07:08:41

Below is generated by plot.py at 2020-04-16 07:39:08

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.33 Mbit/s (102.4% utilization)

95th percentile per-packet one-way delay: 248.081 ms

Loss rate: 0.70%

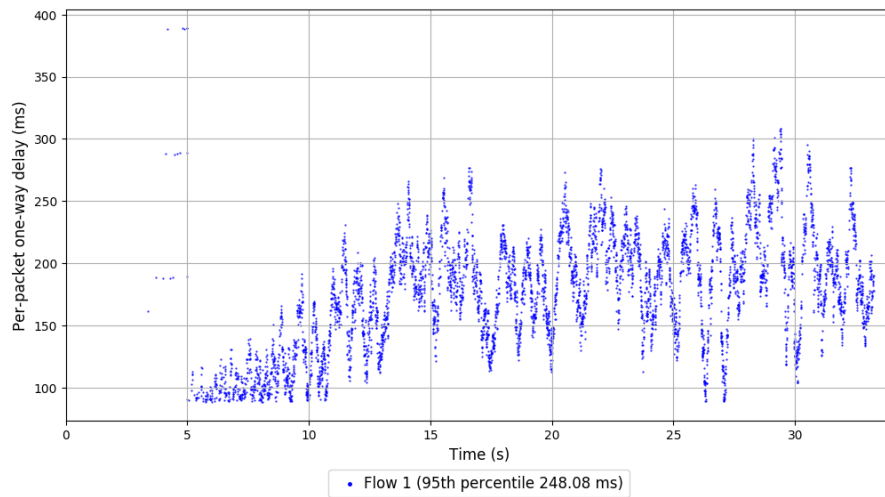
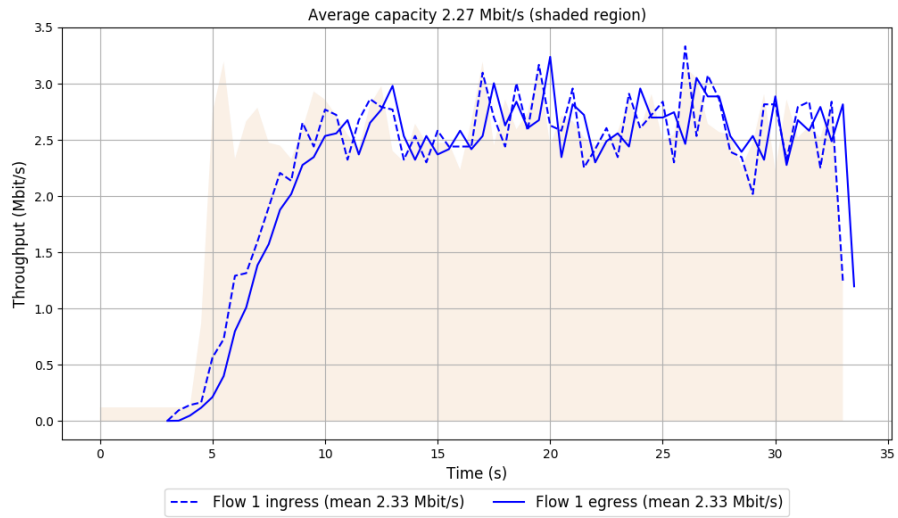
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 248.081 ms

Loss rate: 0.70%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2020-04-16 07:22:07

End at: 2020-04-16 07:22:37

Below is generated by plot.py at 2020-04-16 07:39:08

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.33 Mbit/s (102.4% utilization)

95th percentile per-packet one-way delay: 248.742 ms

Loss rate: 0.69%

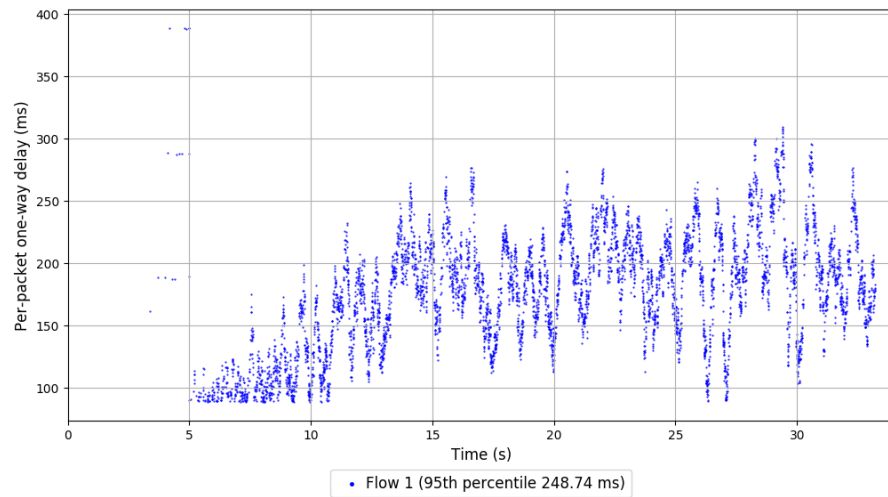
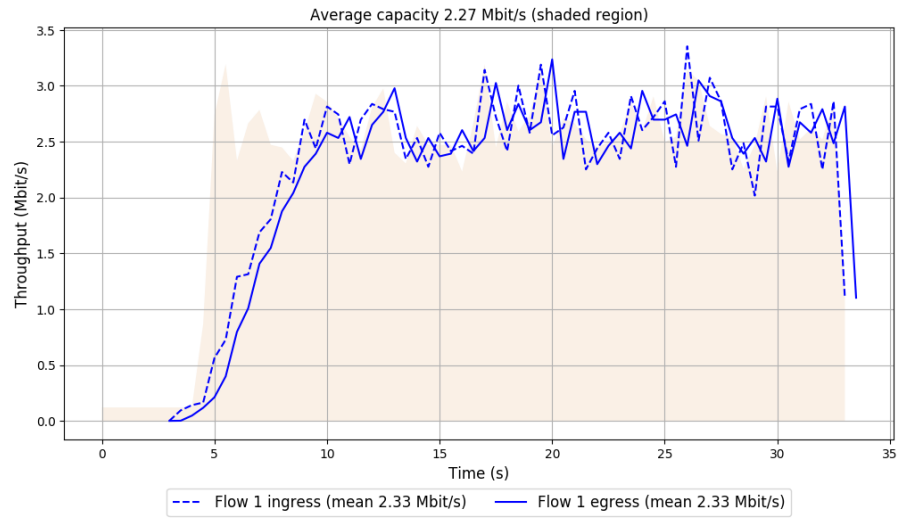
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 248.742 ms

Loss rate: 0.69%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2020-04-16 07:36:02

End at: 2020-04-16 07:36:32

Below is generated by plot.py at 2020-04-16 07:39:10

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.32 Mbit/s (102.1% utilization)

95th percentile per-packet one-way delay: 248.203 ms

Loss rate: 0.69%

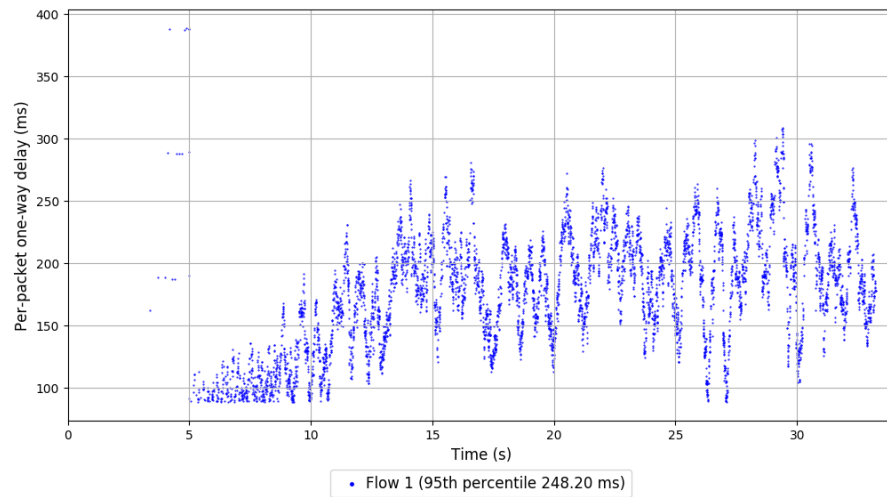
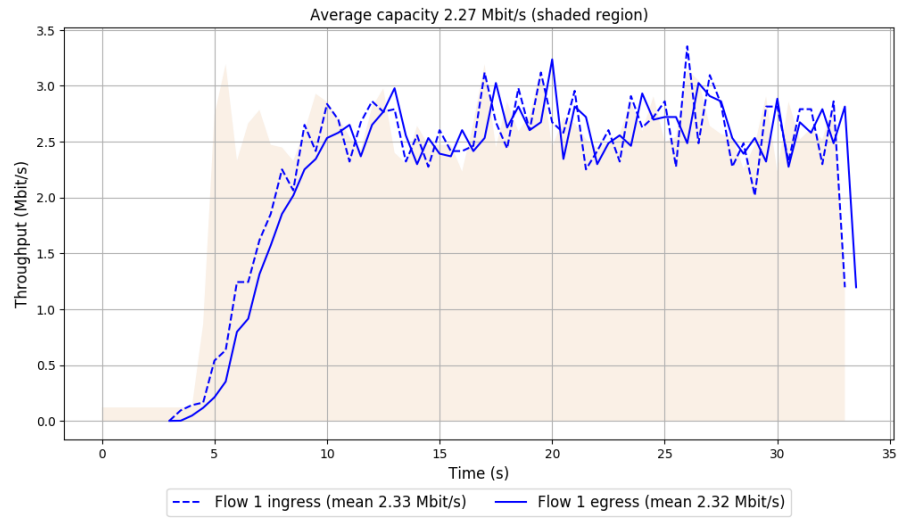
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 248.203 ms

Loss rate: 0.69%

Run 3: Report of LEDBAT — Data Link



Run 1: Statistics of Muses_DecisionTree

Start at: 2020-04-16 07:06:27

End at: 2020-04-16 07:06:57

Below is generated by plot.py at 2020-04-16 07:39:10

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 1.41 Mbit/s (61.9% utilization)

95th percentile per-packet one-way delay: 211.683 ms

Loss rate: 0.31%

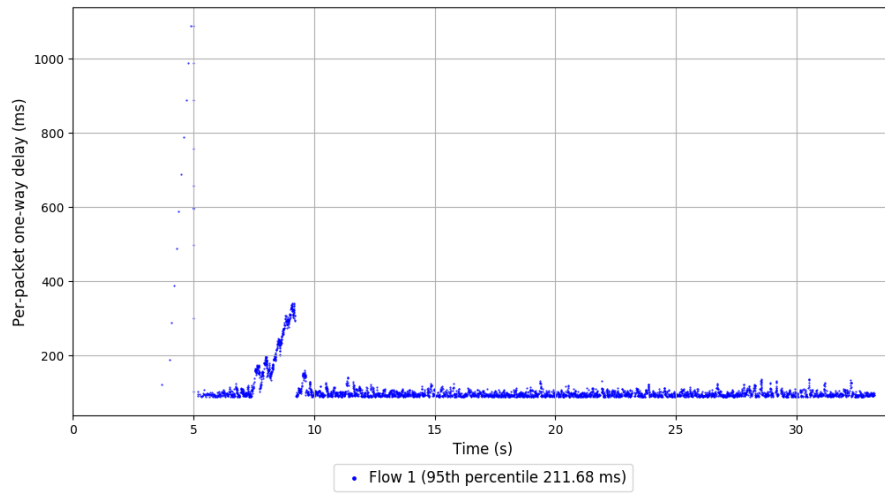
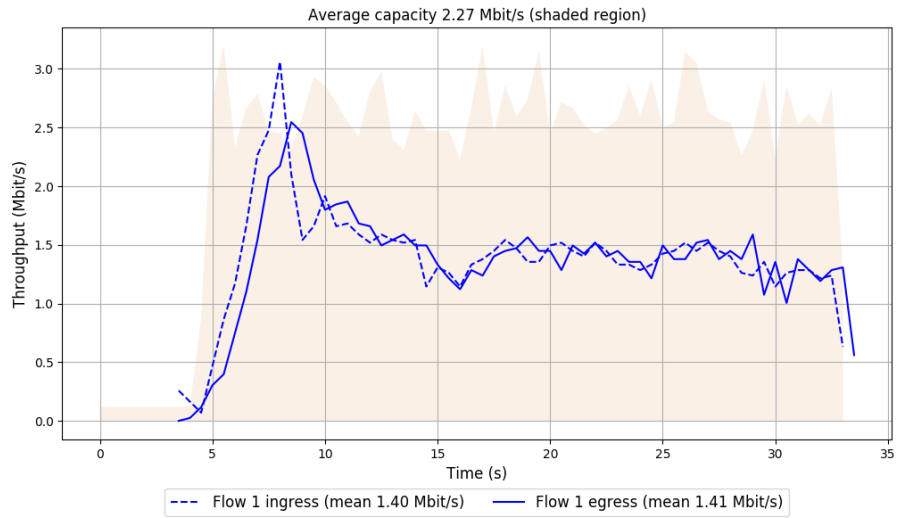
-- Flow 1:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 211.683 ms

Loss rate: 0.31%

Run 1: Report of Muses_DecisionTree — Data Link



Run 2: Statistics of Muses_DecisionTree

Start at: 2020-04-16 07:20:22

End at: 2020-04-16 07:20:52

Below is generated by plot.py at 2020-04-16 07:39:10

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 1.11 Mbit/s (49.0% utilization)

95th percentile per-packet one-way delay: 219.475 ms

Loss rate: 0.04%

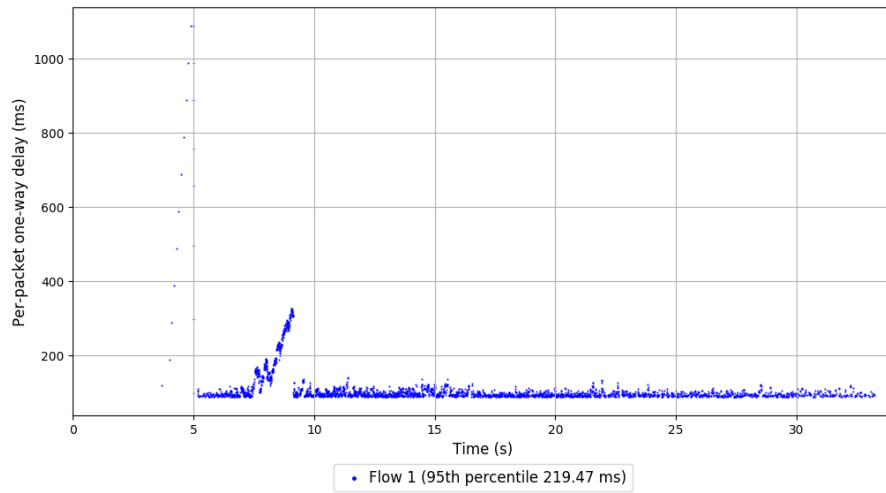
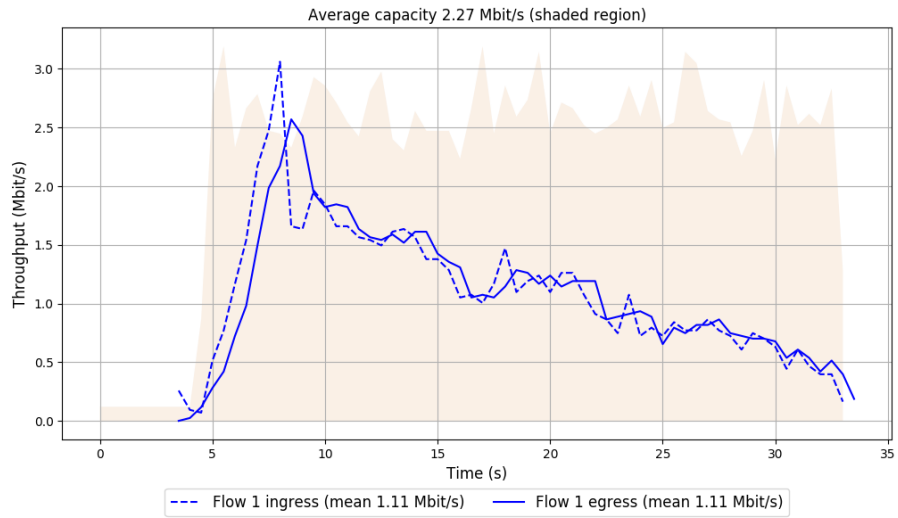
-- Flow 1:

Average throughput: 1.11 Mbit/s

95th percentile per-packet one-way delay: 219.475 ms

Loss rate: 0.04%

Run 2: Report of Muses_DecisionTree — Data Link



Run 3: Statistics of Muses_DecisionTree

Start at: 2020-04-16 07:34:18

End at: 2020-04-16 07:34:48

Below is generated by plot.py at 2020-04-16 07:39:13

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 1.45 Mbit/s (64.0% utilization)

95th percentile per-packet one-way delay: 177.318 ms

Loss rate: 0.38%

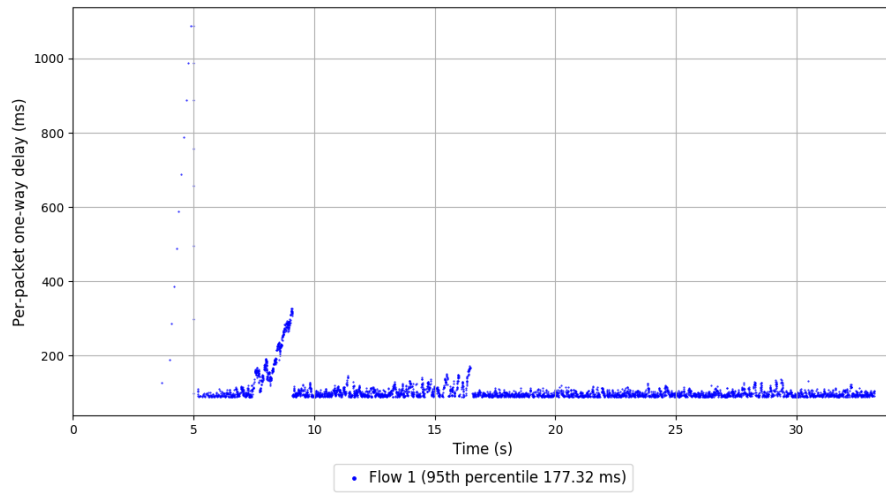
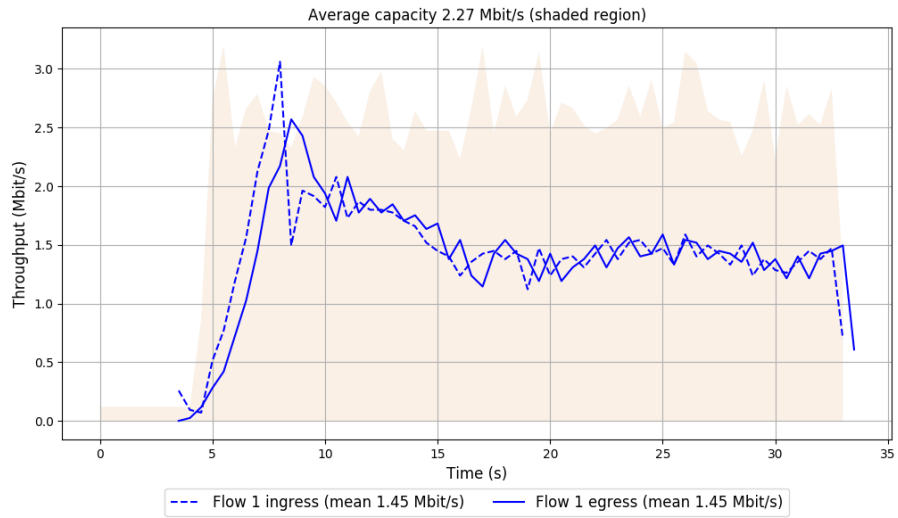
-- Flow 1:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 177.318 ms

Loss rate: 0.38%

Run 3: Report of Muses_DecisionTree — Data Link



Run 1: Statistics of Muses_DecisionTreeH0

Start at: 2020-04-16 07:07:37

End at: 2020-04-16 07:08:07

Below is generated by plot.py at 2020-04-16 07:39:15

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 1.64 Mbit/s (72.1% utilization)

95th percentile per-packet one-way delay: 171.885 ms

Loss rate: 0.12%

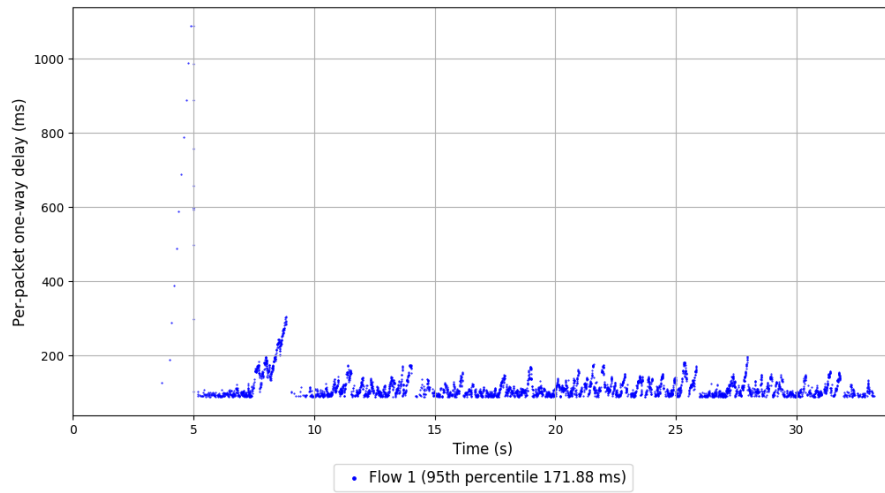
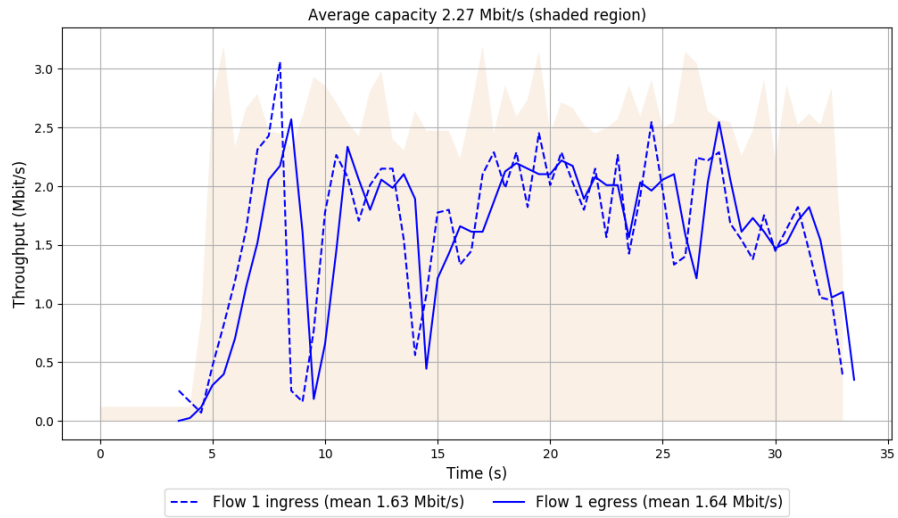
-- Flow 1:

Average throughput: 1.64 Mbit/s

95th percentile per-packet one-way delay: 171.885 ms

Loss rate: 0.12%

Run 1: Report of Muses_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2020-04-16 07:21:32

End at: 2020-04-16 07:22:02

Below is generated by plot.py at 2020-04-16 07:39:15

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 1.56 Mbit/s (68.7% utilization)

95th percentile per-packet one-way delay: 184.357 ms

Loss rate: 0.30%

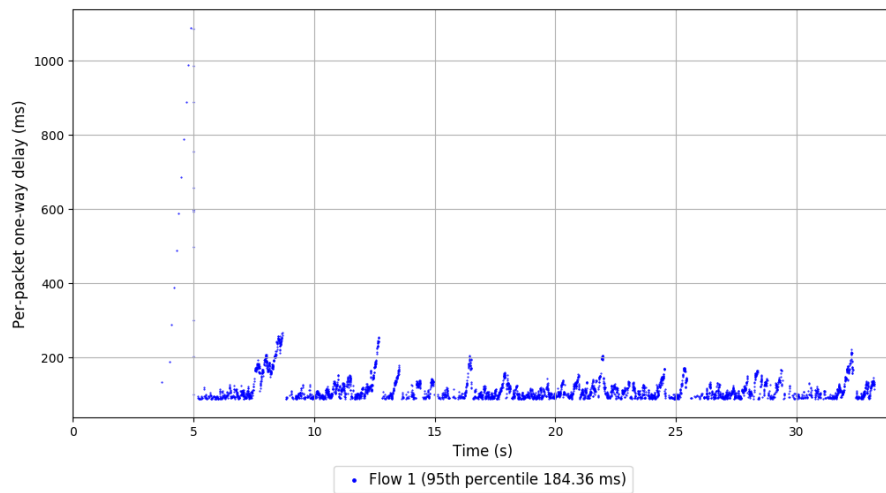
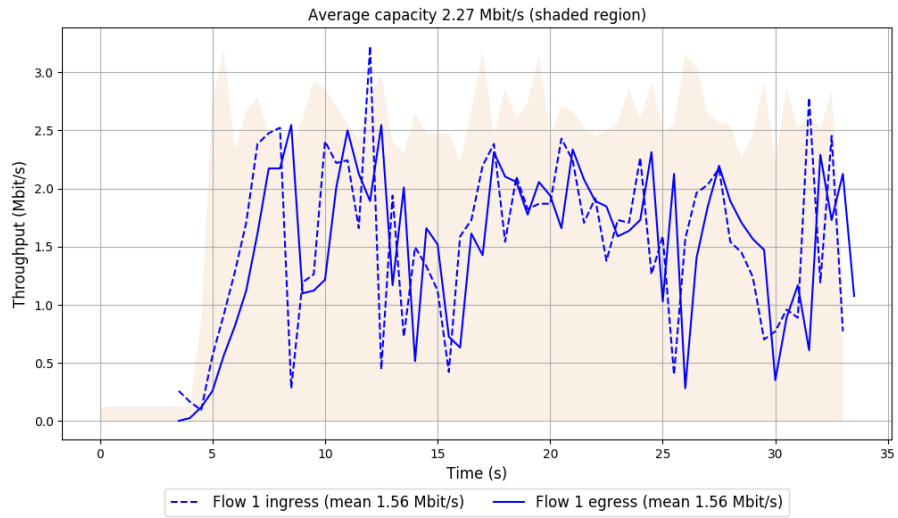
-- Flow 1:

Average throughput: 1.56 Mbit/s

95th percentile per-packet one-way delay: 184.357 ms

Loss rate: 0.30%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2020-04-16 07:35:27

End at: 2020-04-16 07:35:57

Below is generated by plot.py at 2020-04-16 07:39:17

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 1.55 Mbit/s (68.2% utilization)

95th percentile per-packet one-way delay: 196.197 ms

Loss rate: 0.33%

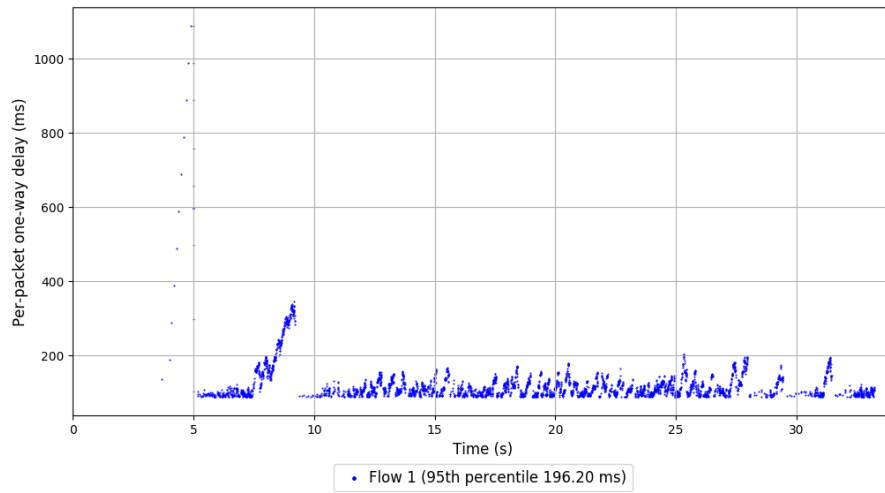
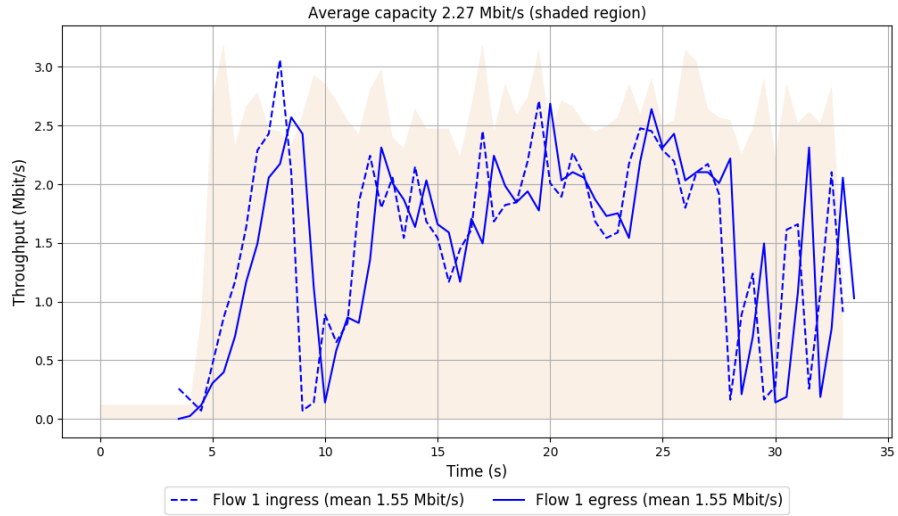
-- Flow 1:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 196.197 ms

Loss rate: 0.33%

Run 3: Report of Muses_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses_DecisionTreeR0

Start at: 2020-04-16 07:03:33

End at: 2020-04-16 07:04:03

Below is generated by plot.py at 2020-04-16 07:39:17

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 1.41 Mbit/s (62.1% utilization)

95th percentile per-packet one-way delay: 208.909 ms

Loss rate: 0.08%

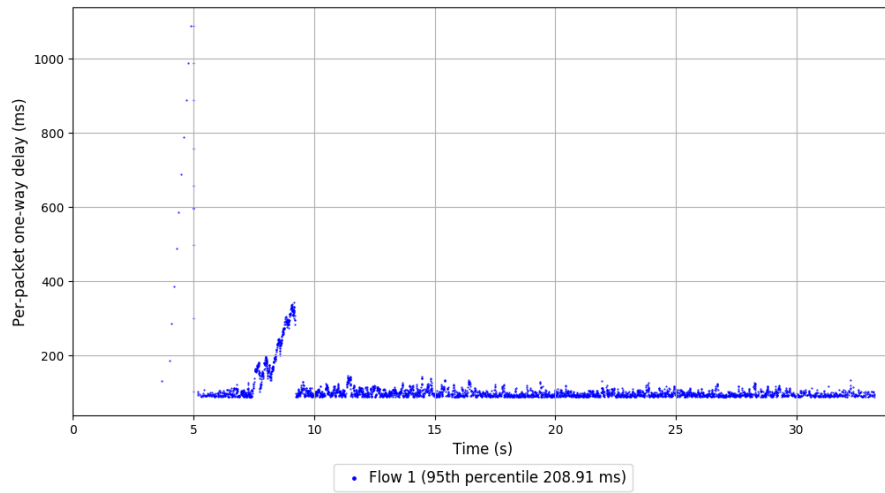
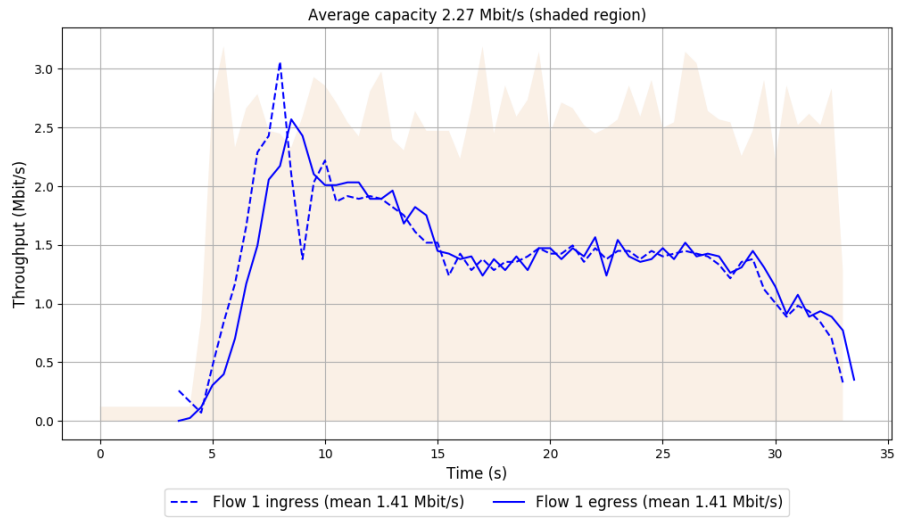
-- Flow 1:

Average throughput: 1.41 Mbit/s

95th percentile per-packet one-way delay: 208.909 ms

Loss rate: 0.08%

Run 1: Report of Muses_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2020-04-16 07:17:29

End at: 2020-04-16 07:17:59

Below is generated by plot.py at 2020-04-16 07:39:17

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 1.46 Mbit/s (64.2% utilization)

95th percentile per-packet one-way delay: 149.041 ms

Loss rate: 0.27%

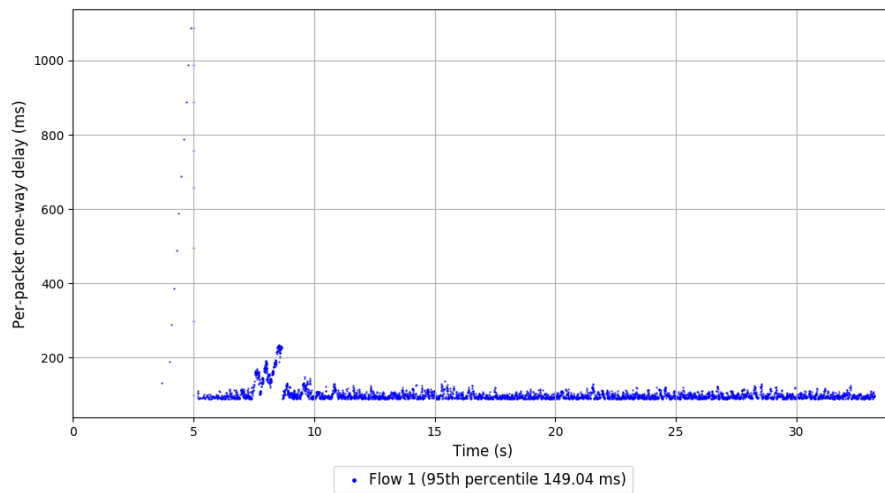
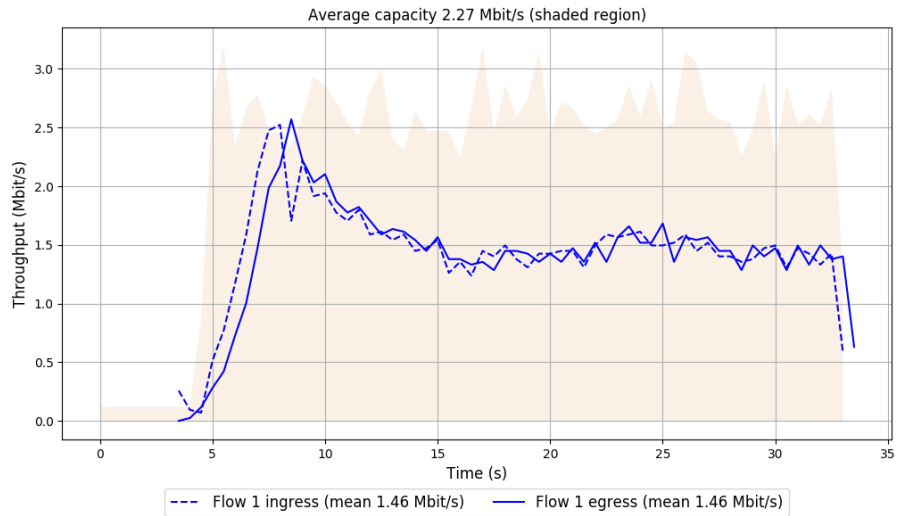
-- Flow 1:

Average throughput: 1.46 Mbit/s

95th percentile per-packet one-way delay: 149.041 ms

Loss rate: 0.27%

Run 2: Report of Muses_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2020-04-16 07:31:24

End at: 2020-04-16 07:31:54

Below is generated by plot.py at 2020-04-16 07:39:18

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 1.45 Mbit/s (63.7% utilization)

95th percentile per-packet one-way delay: 201.451 ms

Loss rate: 0.25%

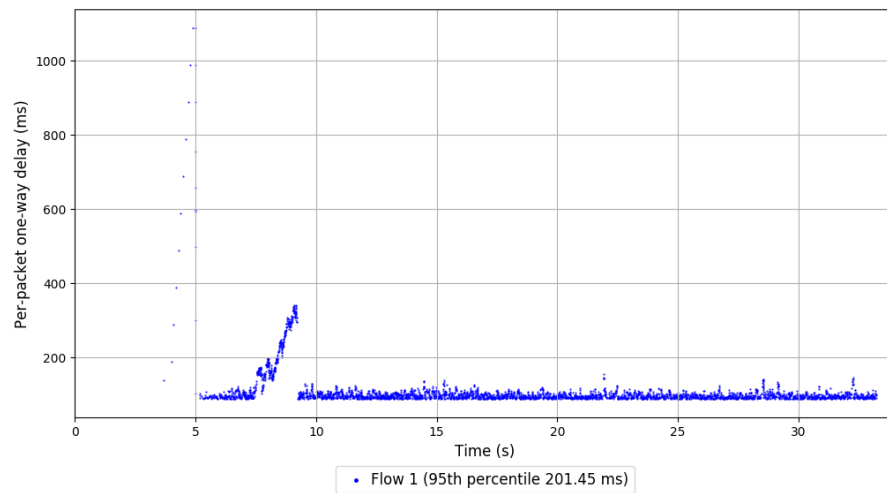
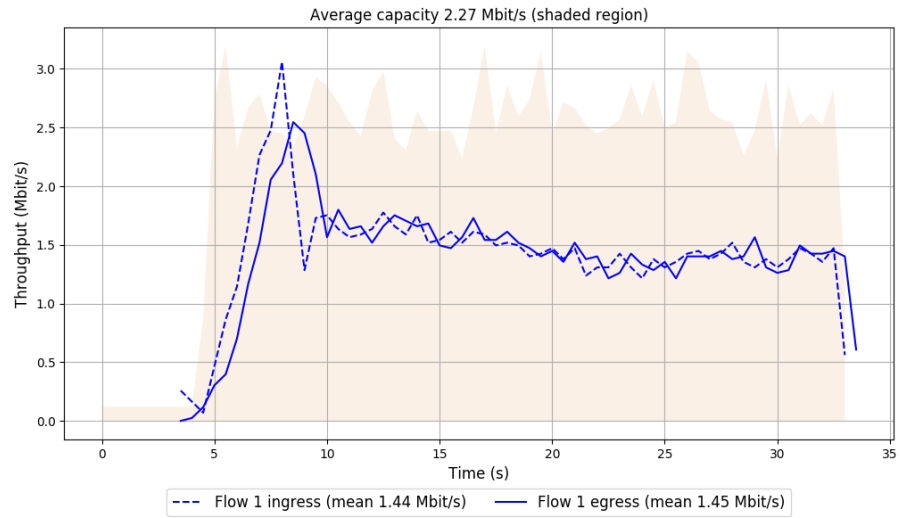
-- Flow 1:

Average throughput: 1.45 Mbit/s

95th percentile per-packet one-way delay: 201.451 ms

Loss rate: 0.25%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2020-04-16 06:56:35

End at: 2020-04-16 06:57:05

Below is generated by plot.py at 2020-04-16 07:39:28

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.51 Mbit/s (110.7% utilization)

95th percentile per-packet one-way delay: 764.626 ms

Loss rate: 86.04%

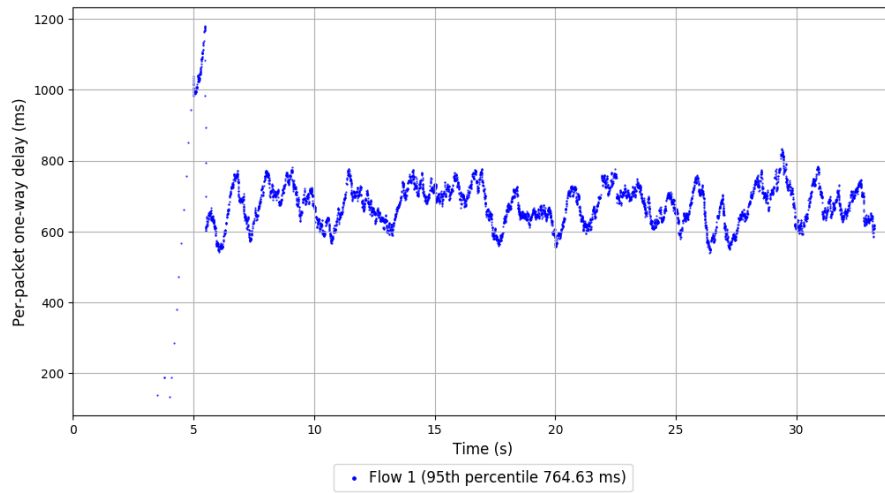
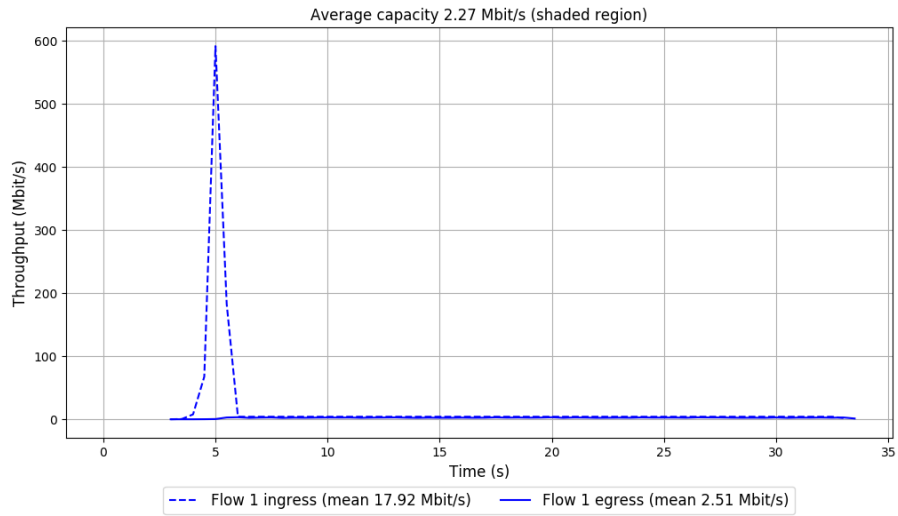
-- Flow 1:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 764.626 ms

Loss rate: 86.04%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2020-04-16 07:10:31

End at: 2020-04-16 07:11:01

Below is generated by plot.py at 2020-04-16 07:39:30

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.51 Mbit/s (110.7% utilization)

95th percentile per-packet one-way delay: 762.635 ms

Loss rate: 84.16%

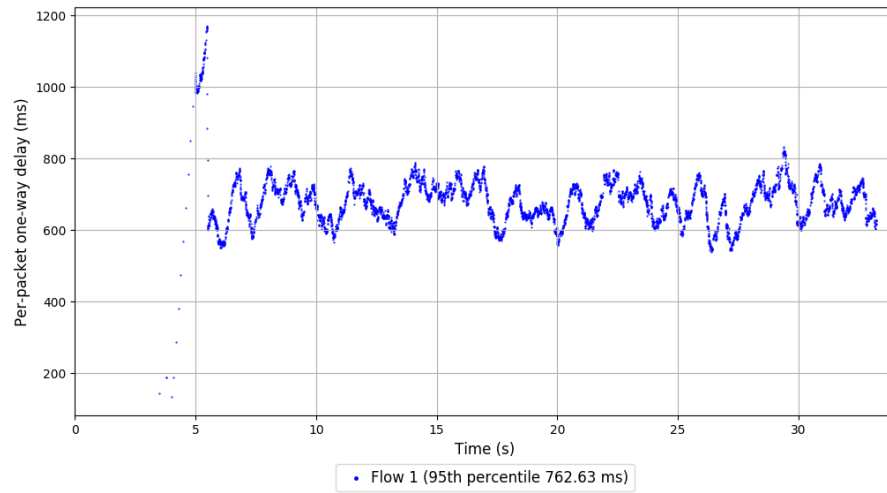
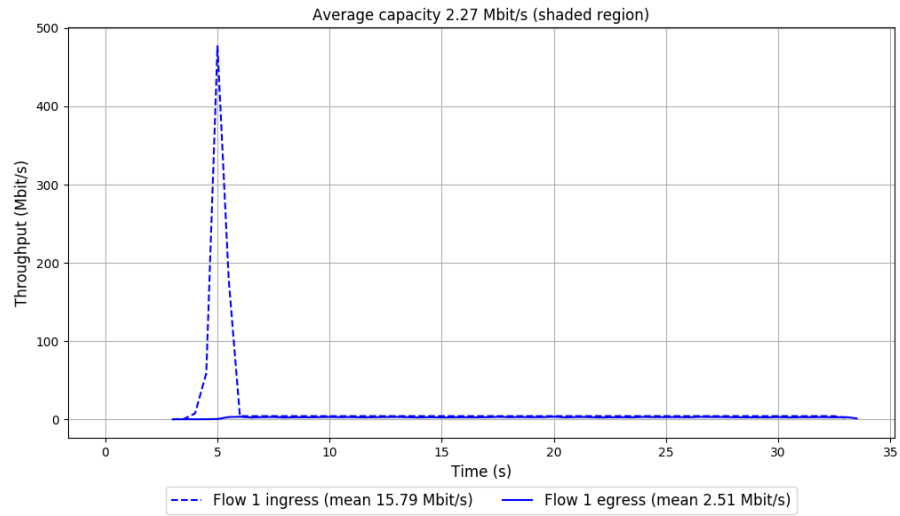
-- Flow 1:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 762.635 ms

Loss rate: 84.16%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2020-04-16 07:24:26

End at: 2020-04-16 07:24:56

Below is generated by plot.py at 2020-04-16 07:39:33

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.51 Mbit/s (110.7% utilization)

95th percentile per-packet one-way delay: 762.209 ms

Loss rate: 85.92%

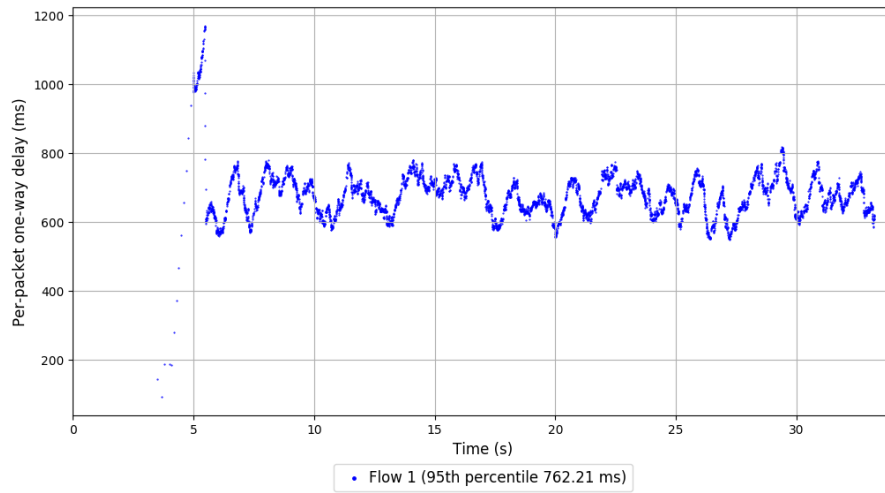
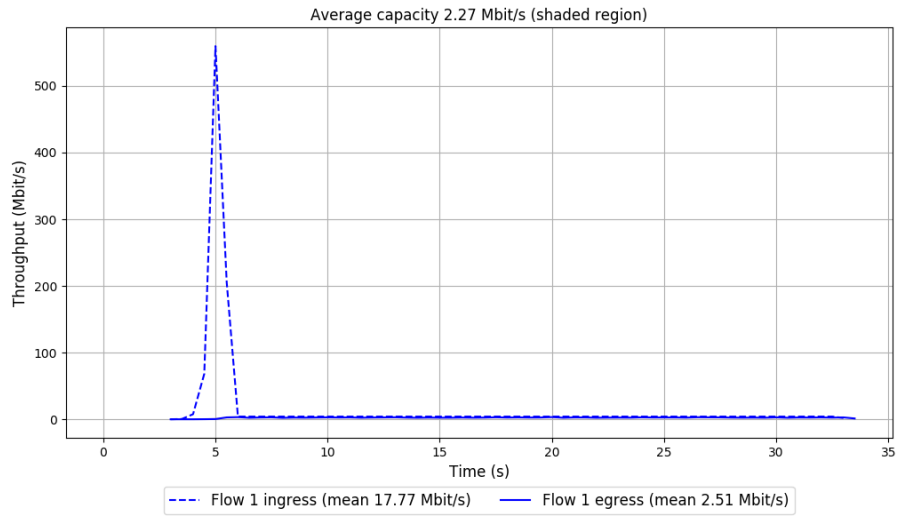
-- Flow 1:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 762.209 ms

Loss rate: 85.92%

Run 3: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2020-04-16 07:08:46

End at: 2020-04-16 07:09:16

Below is generated by plot.py at 2020-04-16 07:39:33

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.51 Mbit/s (110.4% utilization)

95th percentile per-packet one-way delay: 506.038 ms

Loss rate: 53.10%

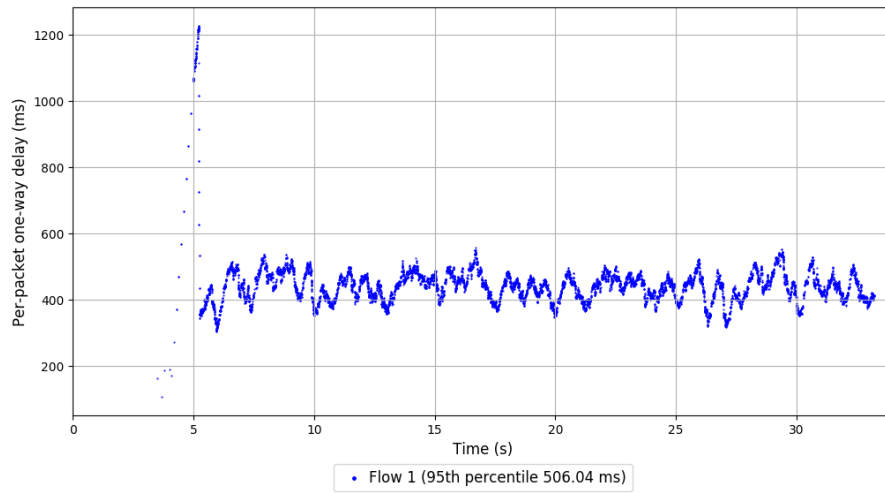
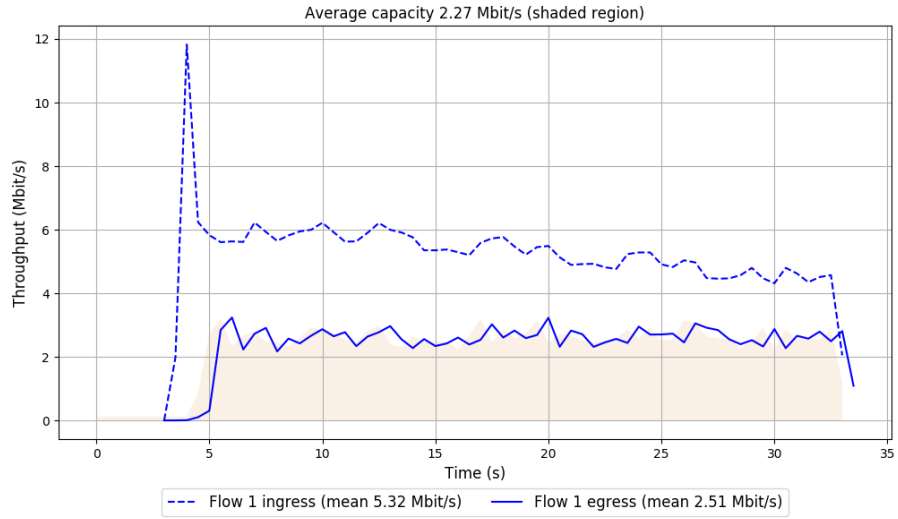
-- Flow 1:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 506.038 ms

Loss rate: 53.10%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2020-04-16 07:22:41

End at: 2020-04-16 07:23:11

Below is generated by plot.py at 2020-04-16 07:39:33

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.51 Mbit/s (110.4% utilization)

95th percentile per-packet one-way delay: 501.650 ms

Loss rate: 44.58%

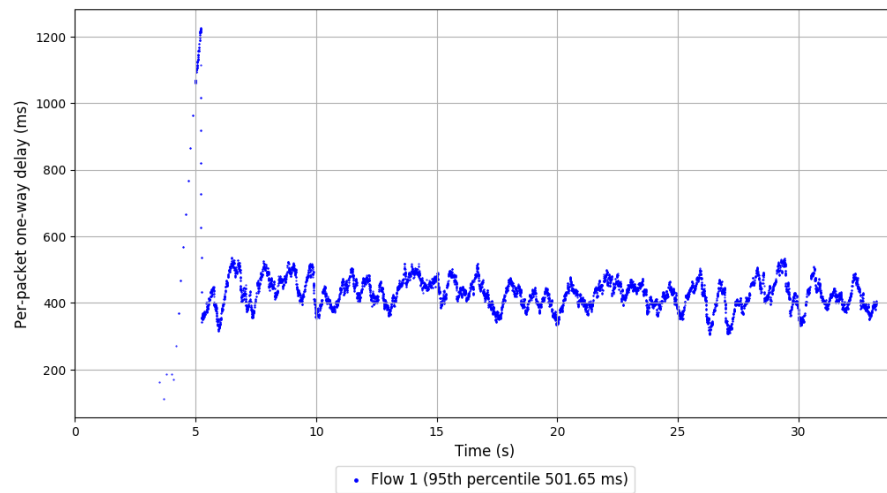
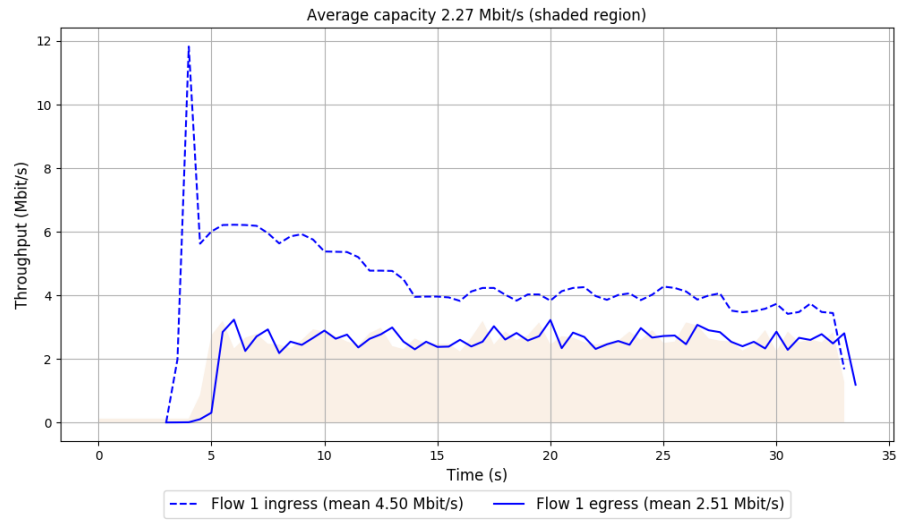
-- Flow 1:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 501.650 ms

Loss rate: 44.58%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2020-04-16 07:36:37

End at: 2020-04-16 07:37:07

Below is generated by plot.py at 2020-04-16 07:39:33

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.51 Mbit/s (110.5% utilization)

95th percentile per-packet one-way delay: 517.017 ms

Loss rate: 61.54%

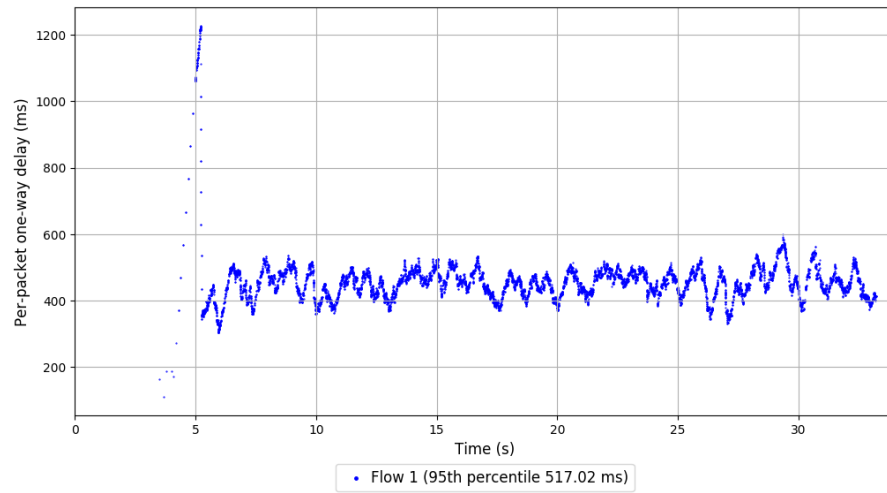
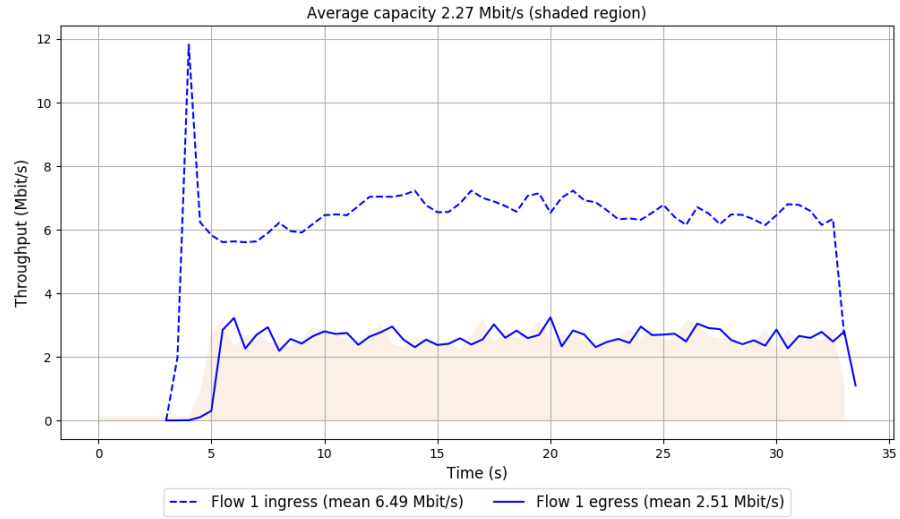
-- Flow 1:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 517.017 ms

Loss rate: 61.54%

Run 3: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2020-04-16 07:09:21

End at: 2020-04-16 07:09:51

Below is generated by plot.py at 2020-04-16 07:39:33

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.52 Mbit/s (110.7% utilization)

95th percentile per-packet one-way delay: 691.560 ms

Loss rate: 6.06%

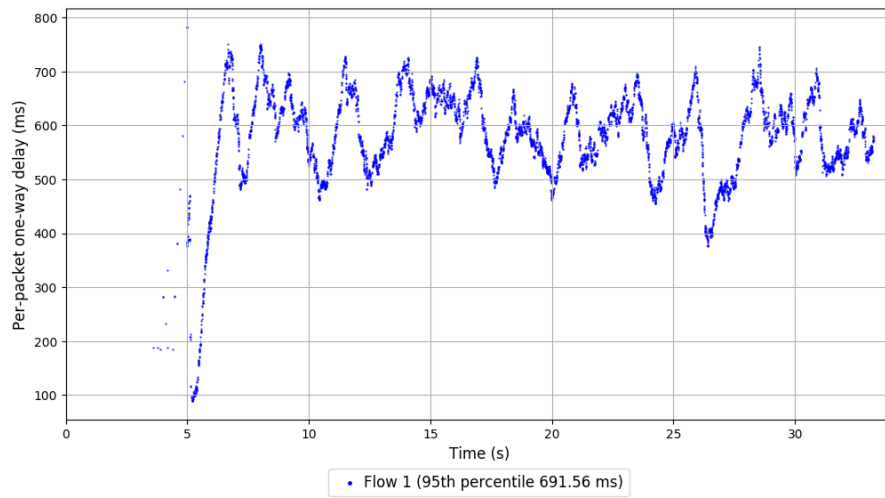
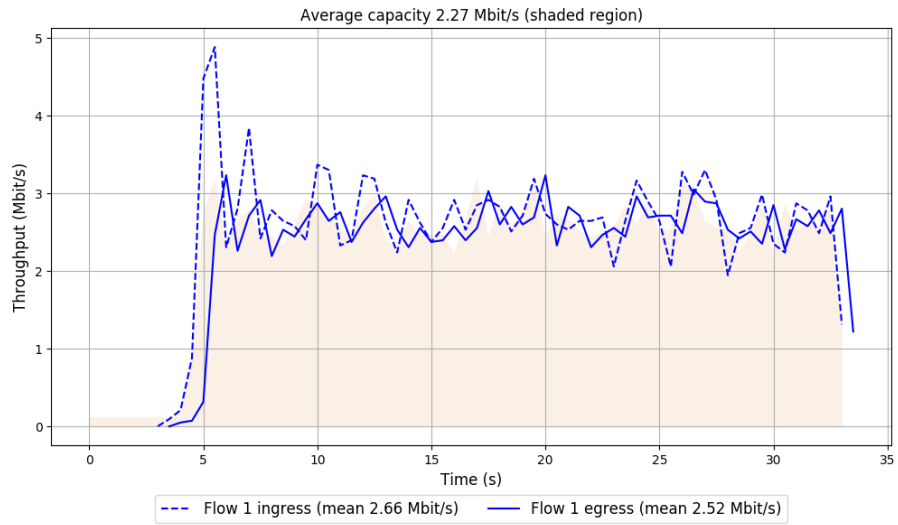
-- Flow 1:

Average throughput: 2.52 Mbit/s

95th percentile per-packet one-way delay: 691.560 ms

Loss rate: 6.06%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2020-04-16 07:23:16

End at: 2020-04-16 07:23:46

Below is generated by plot.py at 2020-04-16 07:39:33

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.52 Mbit/s (110.7% utilization)

95th percentile per-packet one-way delay: 692.415 ms

Loss rate: 5.72%

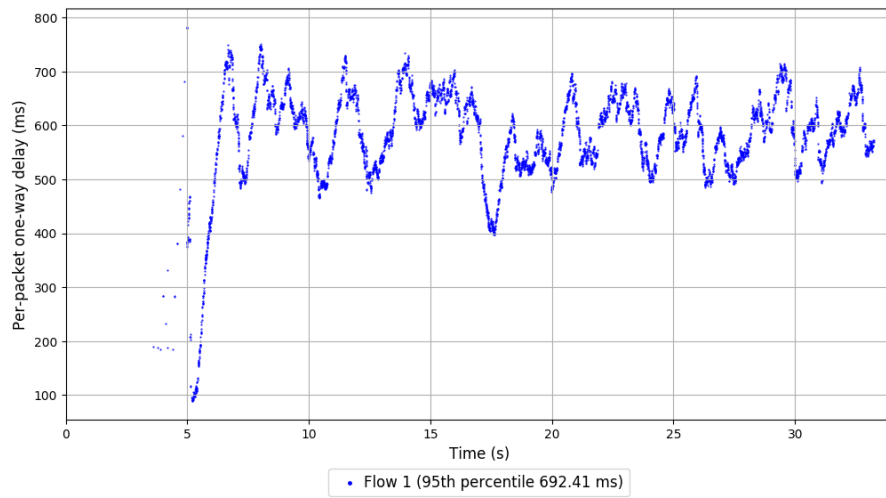
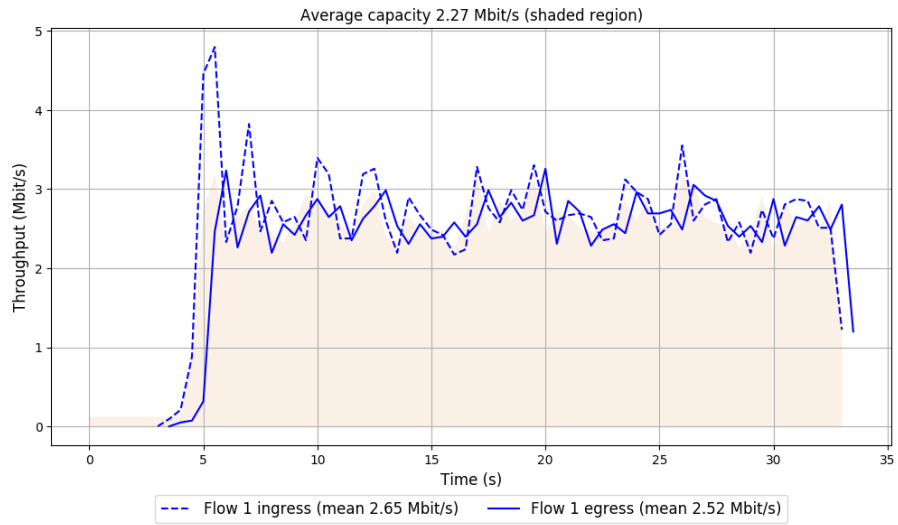
-- Flow 1:

Average throughput: 2.52 Mbit/s

95th percentile per-packet one-way delay: 692.415 ms

Loss rate: 5.72%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2020-04-16 07:37:12

End at: 2020-04-16 07:37:42

Below is generated by plot.py at 2020-04-16 07:39:36

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.52 Mbit/s (110.8% utilization)

95th percentile per-packet one-way delay: 684.562 ms

Loss rate: 3.68%

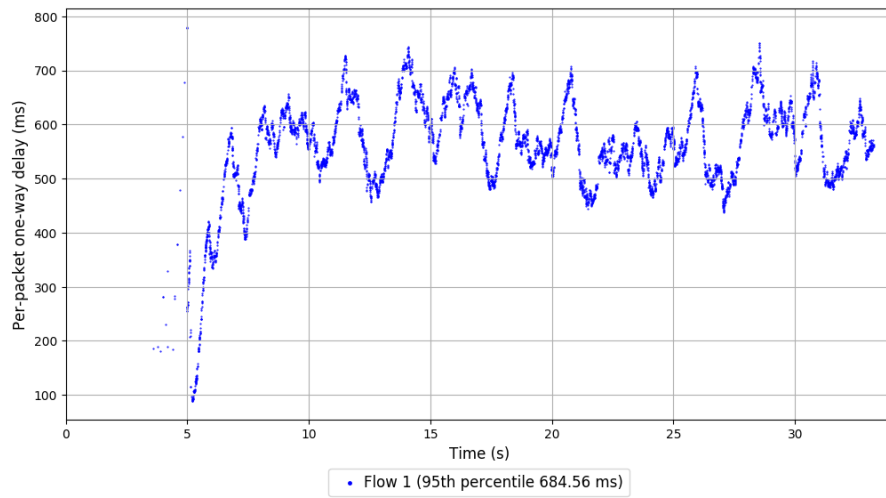
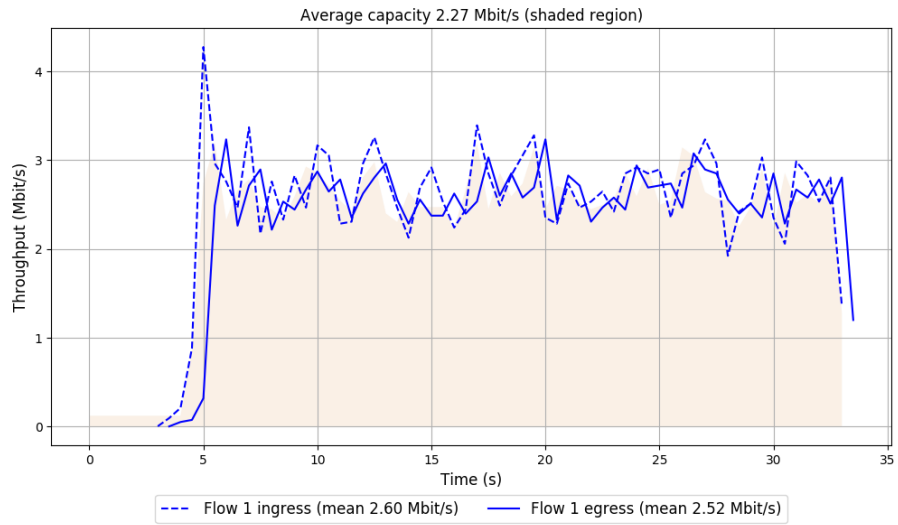
-- Flow 1:

Average throughput: 2.52 Mbit/s

95th percentile per-packet one-way delay: 684.562 ms

Loss rate: 3.68%

Run 3: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2020-04-16 07:07:02

End at: 2020-04-16 07:07:32

Below is generated by plot.py at 2020-04-16 07:39:36

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 0.08 Mbit/s (3.5% utilization)

95th percentile per-packet one-way delay: 106.388 ms

Loss rate: 0.39%

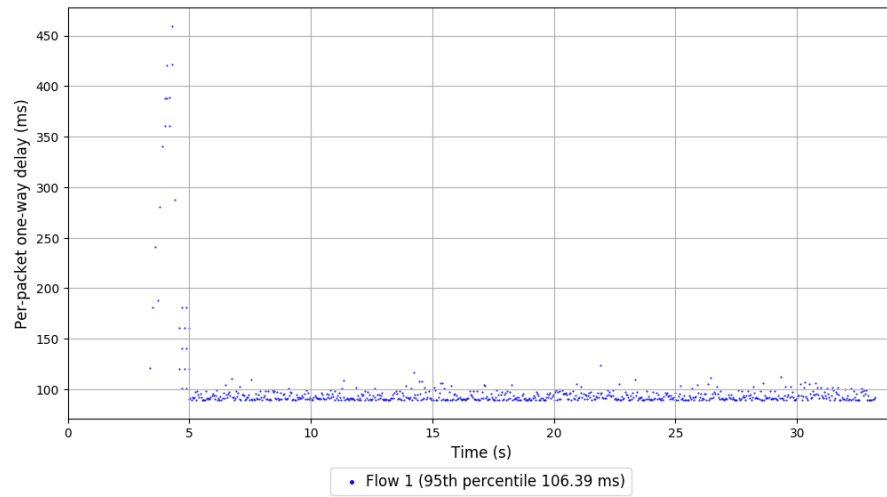
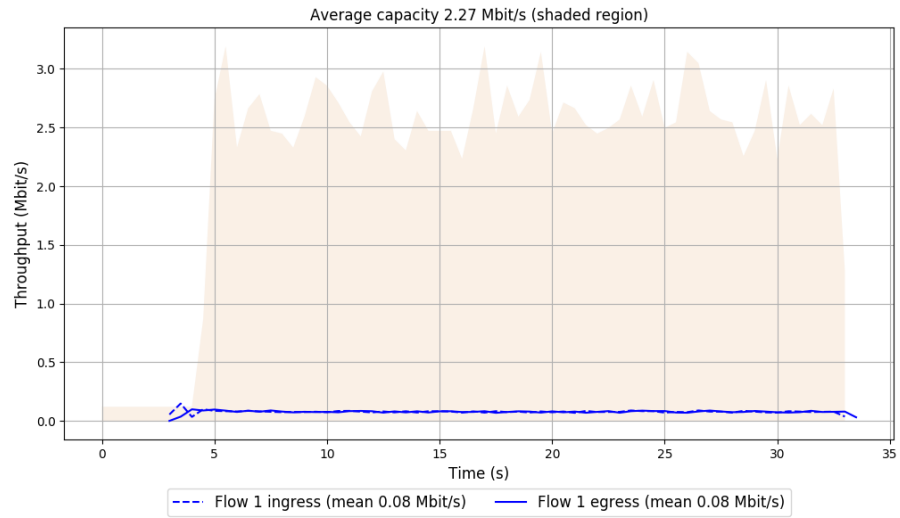
-- Flow 1:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 106.388 ms

Loss rate: 0.39%

Run 1: Report of SCReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2020-04-16 07:20:57

End at: 2020-04-16 07:21:27

Below is generated by plot.py at 2020-04-16 07:39:36

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 0.08 Mbit/s (3.5% utilization)

95th percentile per-packet one-way delay: 107.337 ms

Loss rate: 0.26%

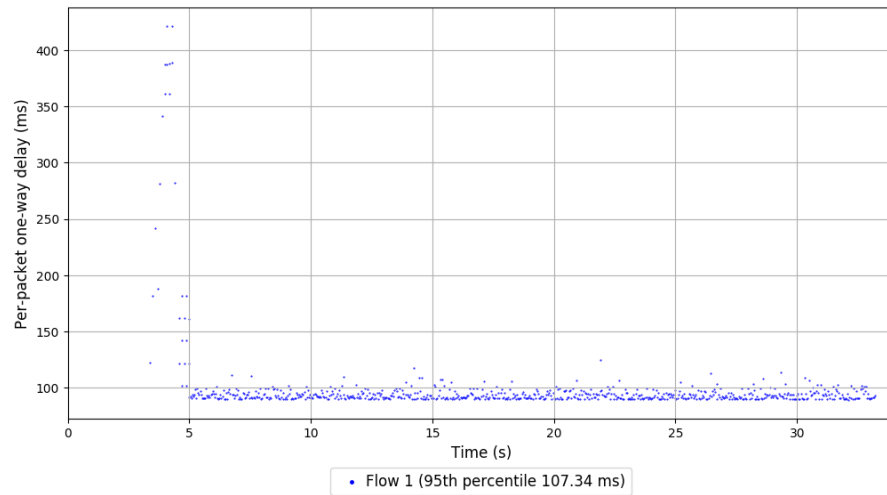
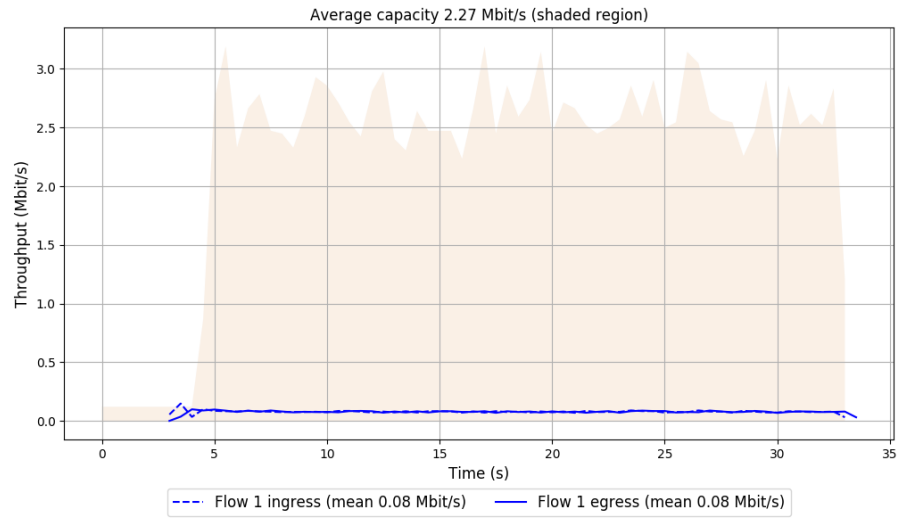
-- Flow 1:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 107.337 ms

Loss rate: 0.26%

Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2020-04-16 07:34:52

End at: 2020-04-16 07:35:22

Below is generated by plot.py at 2020-04-16 07:39:37

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 0.08 Mbit/s (3.5% utilization)

95th percentile per-packet one-way delay: 106.367 ms

Loss rate: 0.26%

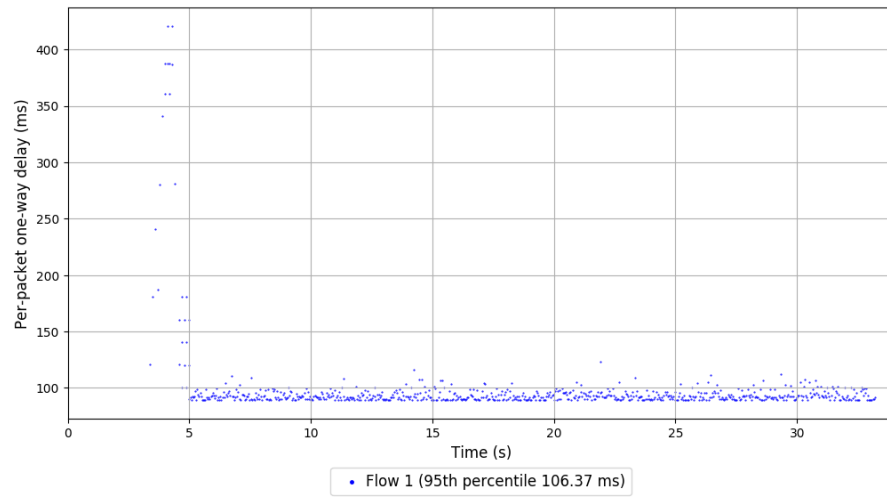
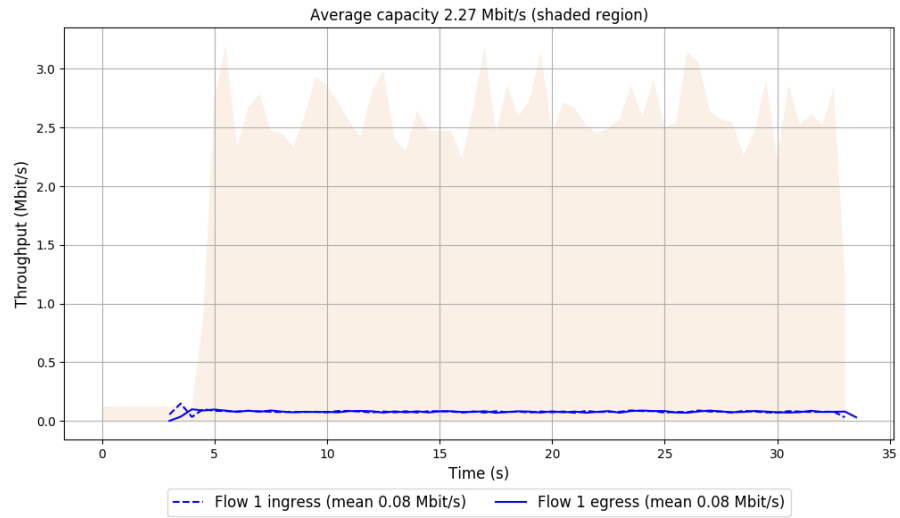
-- Flow 1:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 106.367 ms

Loss rate: 0.26%

Run 3: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2020-04-16 07:02:24

End at: 2020-04-16 07:02:54

Below is generated by plot.py at 2020-04-16 07:39:37

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 0.26 Mbit/s (11.4% utilization)

95th percentile per-packet one-way delay: 143.361 ms

Loss rate: 0.13%

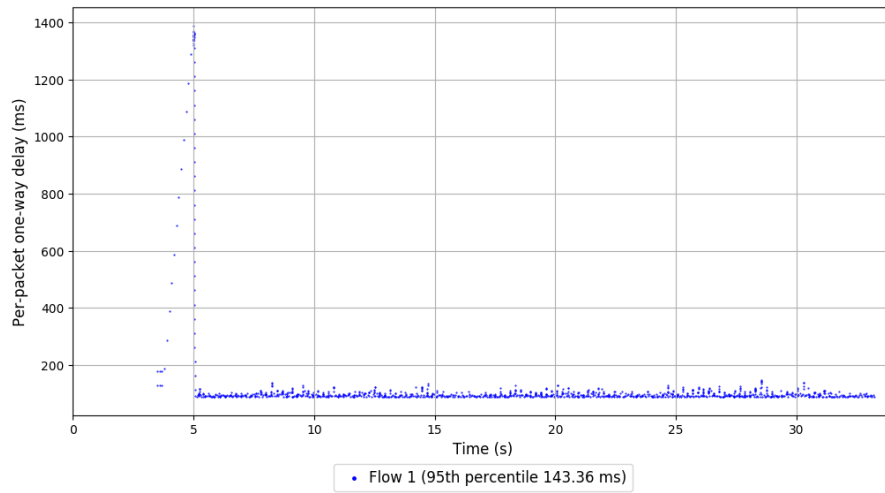
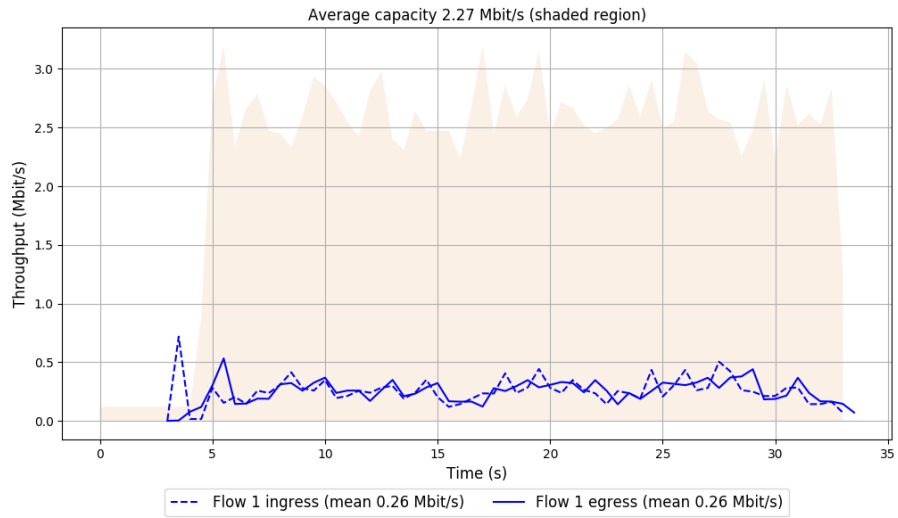
-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 143.361 ms

Loss rate: 0.13%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2020-04-16 07:16:19

End at: 2020-04-16 07:16:49

Below is generated by plot.py at 2020-04-16 07:39:38

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 0.25 Mbit/s (11.0% utilization)

95th percentile per-packet one-way delay: 163.735 ms

Loss rate: 0.62%

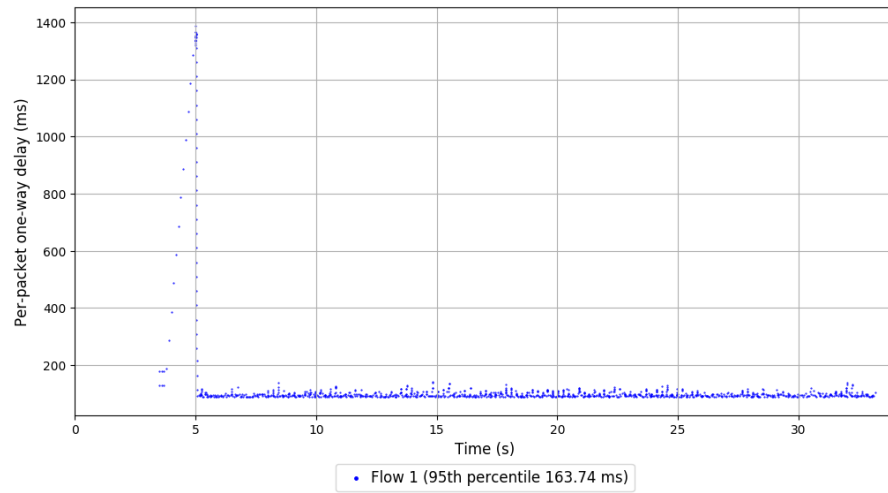
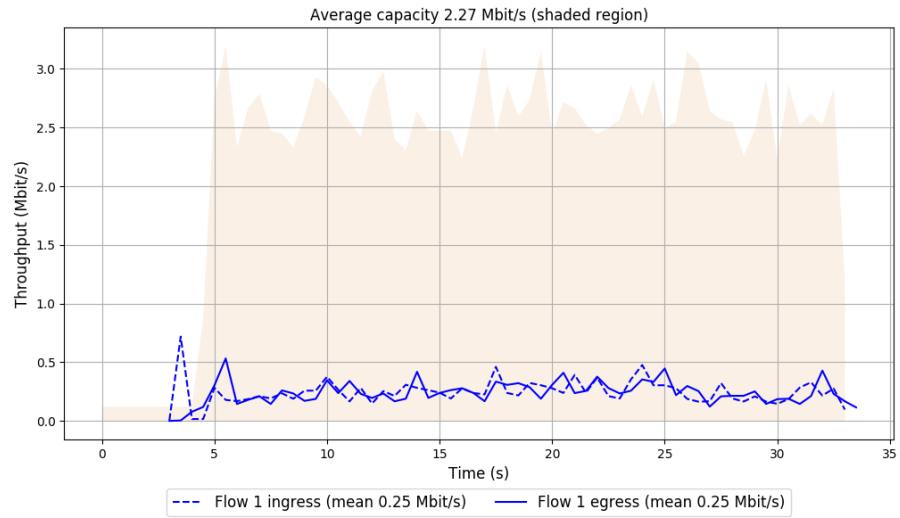
-- Flow 1:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 163.735 ms

Loss rate: 0.62%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2020-04-16 07:30:14

End at: 2020-04-16 07:30:44

Below is generated by plot.py at 2020-04-16 07:39:38

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 0.26 Mbit/s (11.4% utilization)

95th percentile per-packet one-way delay: 135.528 ms

Loss rate: 0.17%

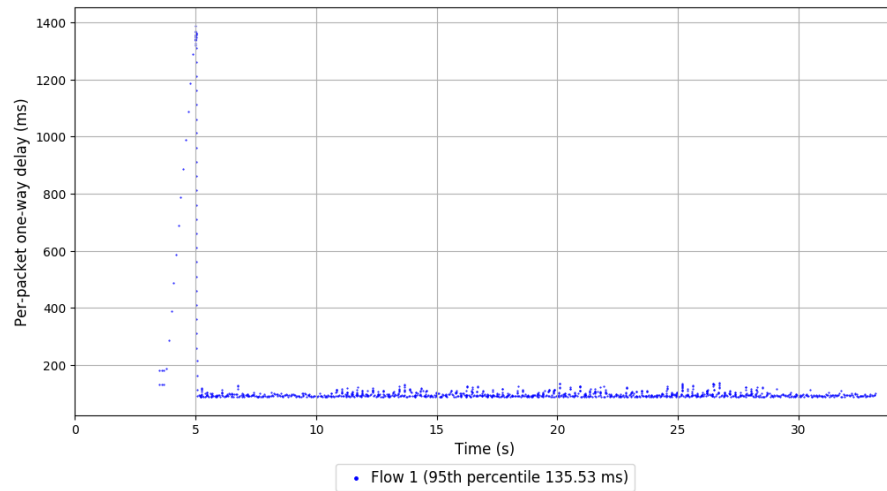
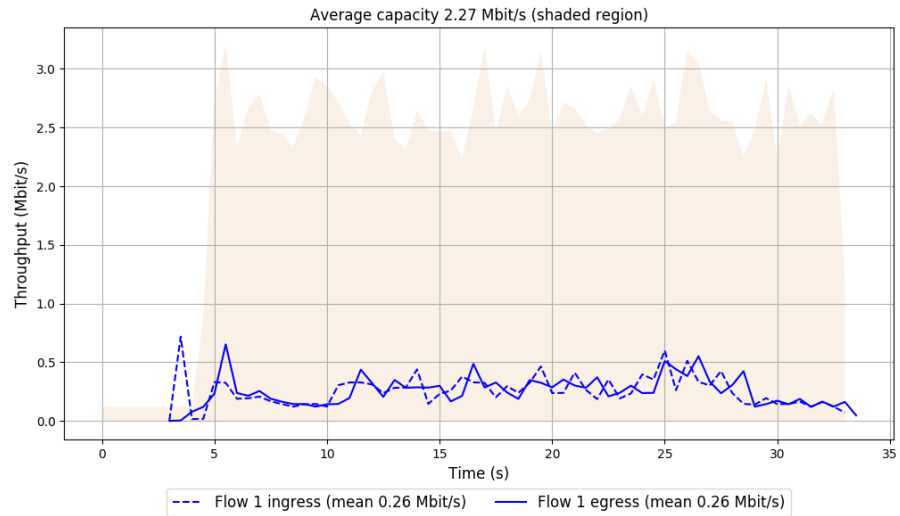
-- Flow 1:

Average throughput: 0.26 Mbit/s

95th percentile per-packet one-way delay: 135.528 ms

Loss rate: 0.17%

Run 3: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2020-04-16 06:58:55

End at: 2020-04-16 06:59:25

Below is generated by plot.py at 2020-04-16 07:39:46

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.31 Mbit/s (101.8% utilization)

95th percentile per-packet one-way delay: 225.048 ms

Loss rate: 1.16%

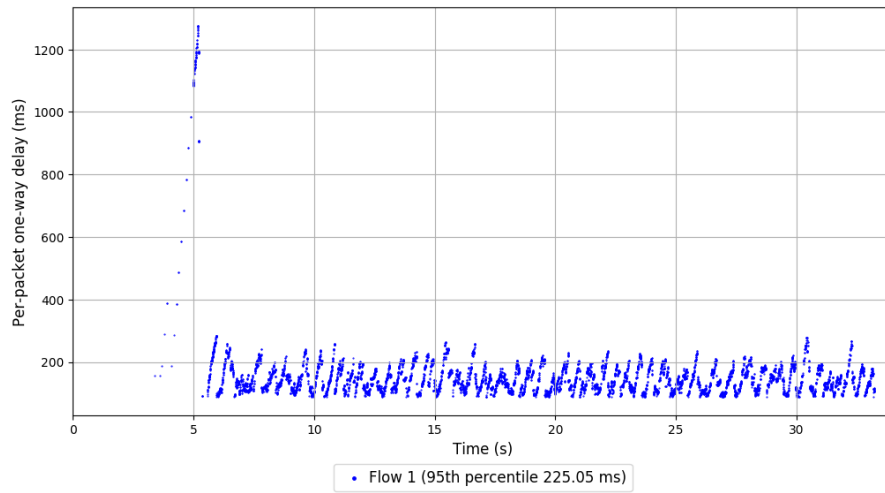
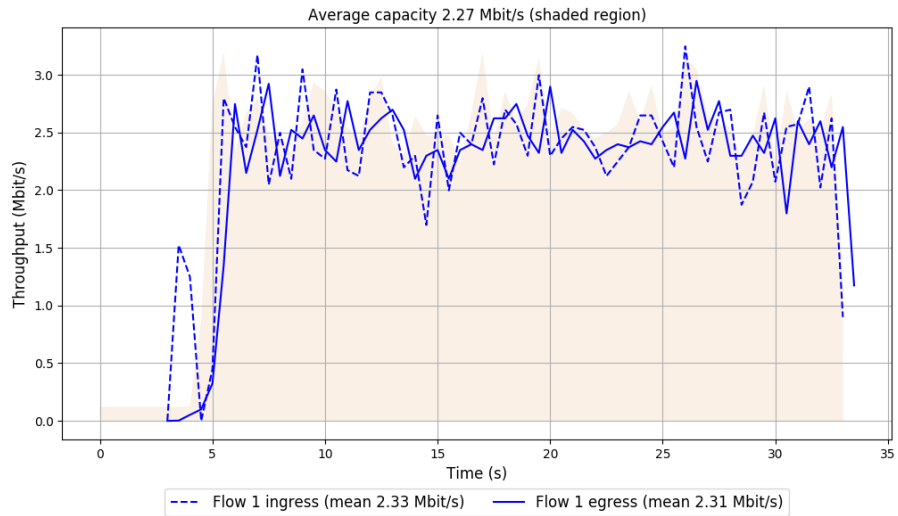
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 225.048 ms

Loss rate: 1.16%

Run 1: Report of TaoVA-100x — Data Link



Run 2: Statistics of TaoVA-100x

Start at: 2020-04-16 07:12:50

End at: 2020-04-16 07:13:20

Below is generated by plot.py at 2020-04-16 07:39:46

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.29 Mbit/s (100.9% utilization)

95th percentile per-packet one-way delay: 220.195 ms

Loss rate: 1.10%

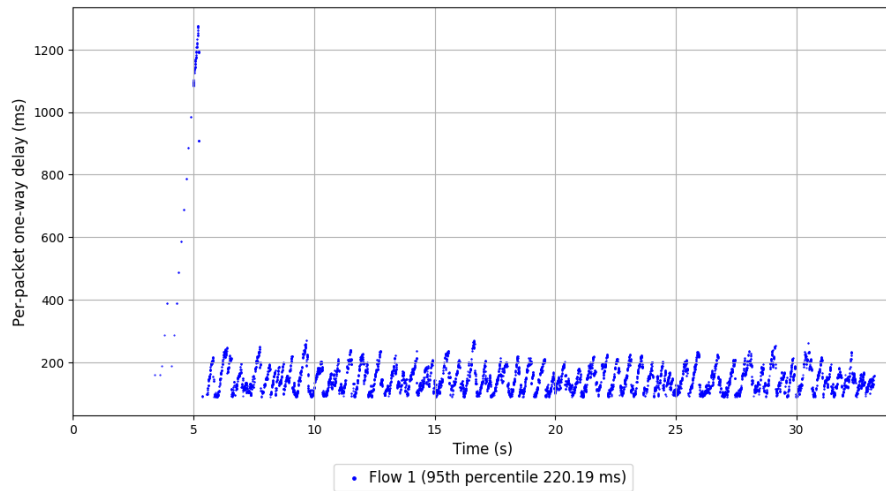
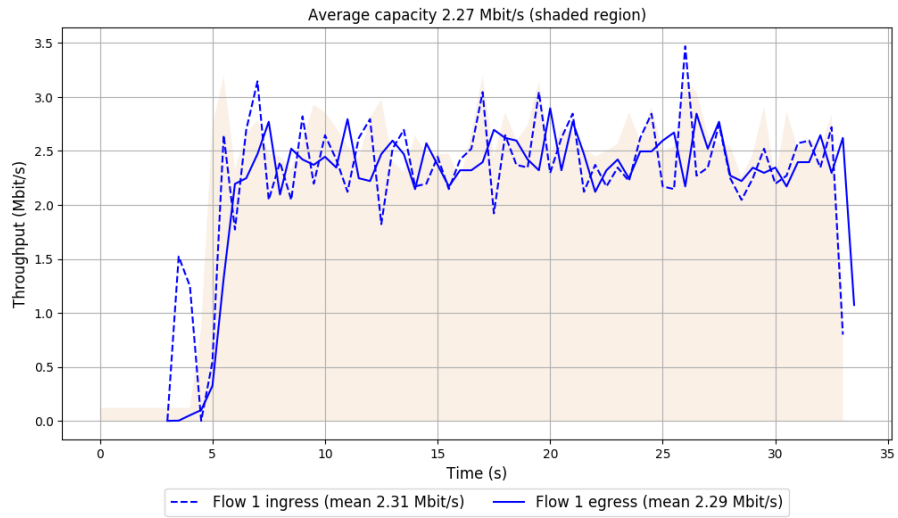
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 220.195 ms

Loss rate: 1.10%

Run 2: Report of TaoVA-100x — Data Link



Run 3: Statistics of TaoVA-100x

Start at: 2020-04-16 07:26:45

End at: 2020-04-16 07:27:15

Below is generated by plot.py at 2020-04-16 07:39:48

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.31 Mbit/s (101.8% utilization)

95th percentile per-packet one-way delay: 224.030 ms

Loss rate: 1.09%

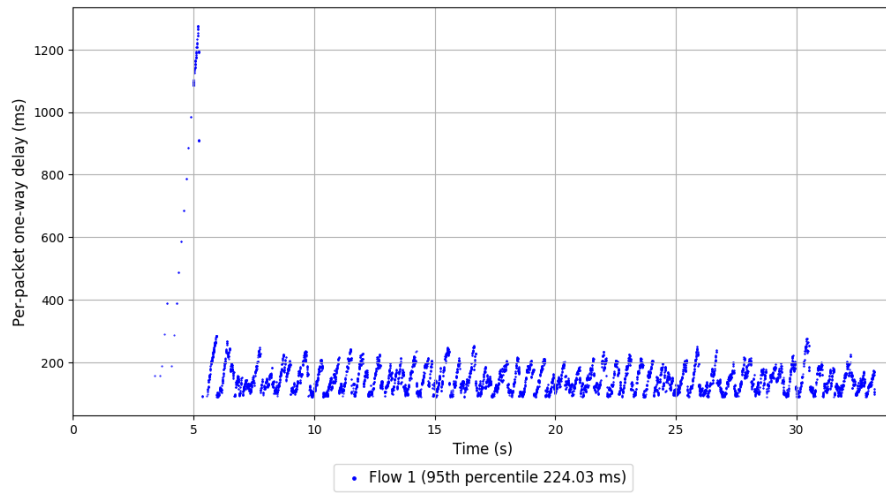
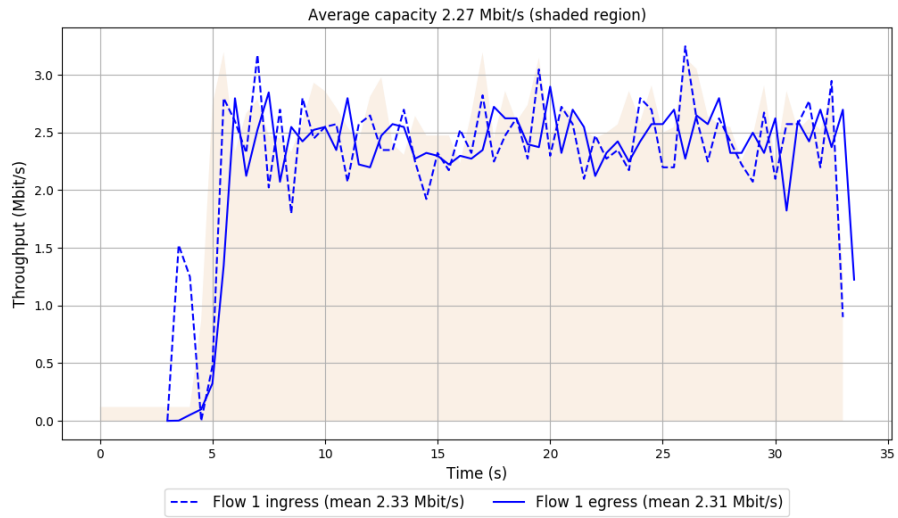
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 224.030 ms

Loss rate: 1.09%

Run 3: Report of TaoVA-100x — Data Link



Run 1: Statistics of TCP Vegas

Start at: 2020-04-16 07:01:14

End at: 2020-04-16 07:01:44

Below is generated by plot.py at 2020-04-16 07:39:48

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.24 Mbit/s (98.4% utilization)

95th percentile per-packet one-way delay: 174.796 ms

Loss rate: 0.48%

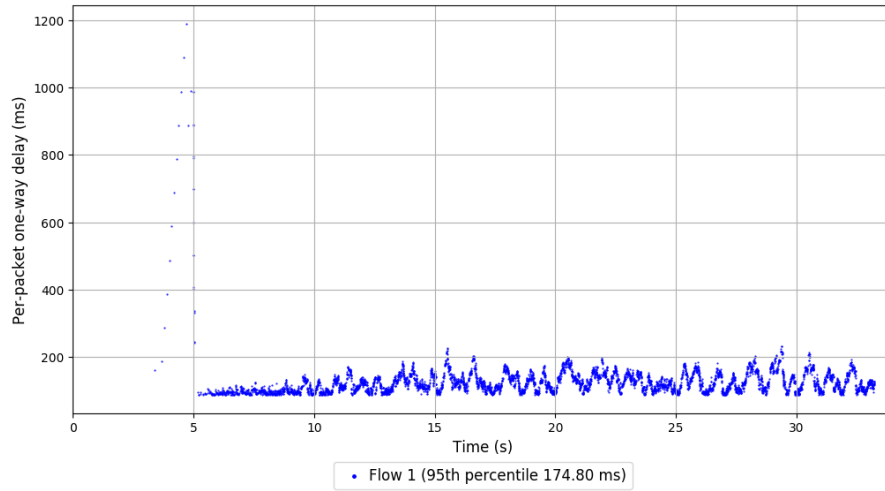
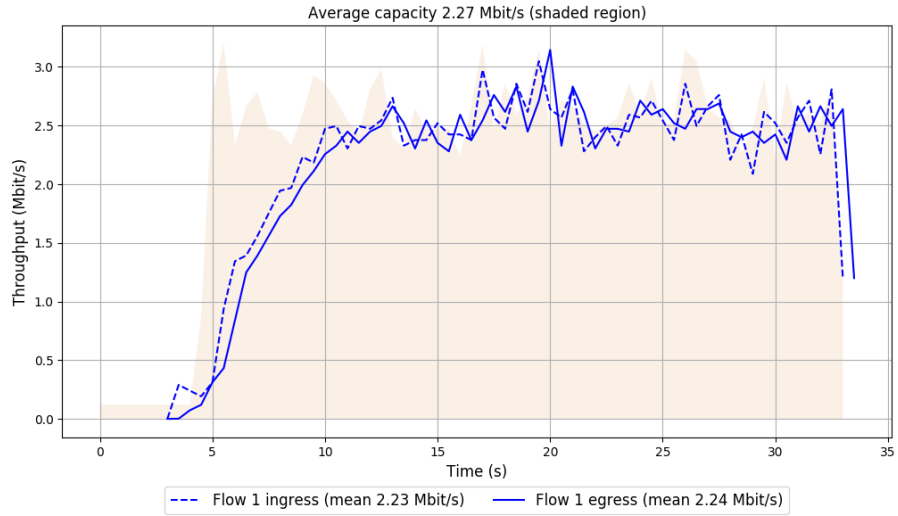
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 174.796 ms

Loss rate: 0.48%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2020-04-16 07:15:10

End at: 2020-04-16 07:15:40

Below is generated by plot.py at 2020-04-16 07:39:48

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.23 Mbit/s (98.2% utilization)

95th percentile per-packet one-way delay: 174.262 ms

Loss rate: 0.48%

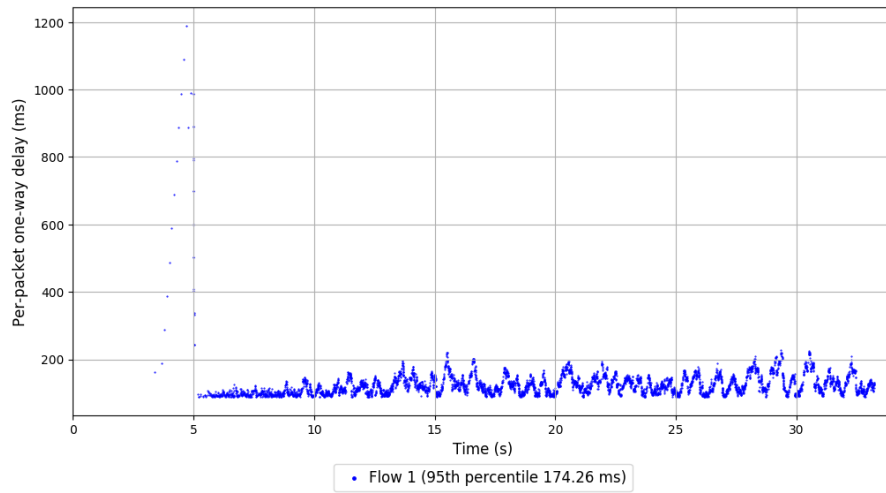
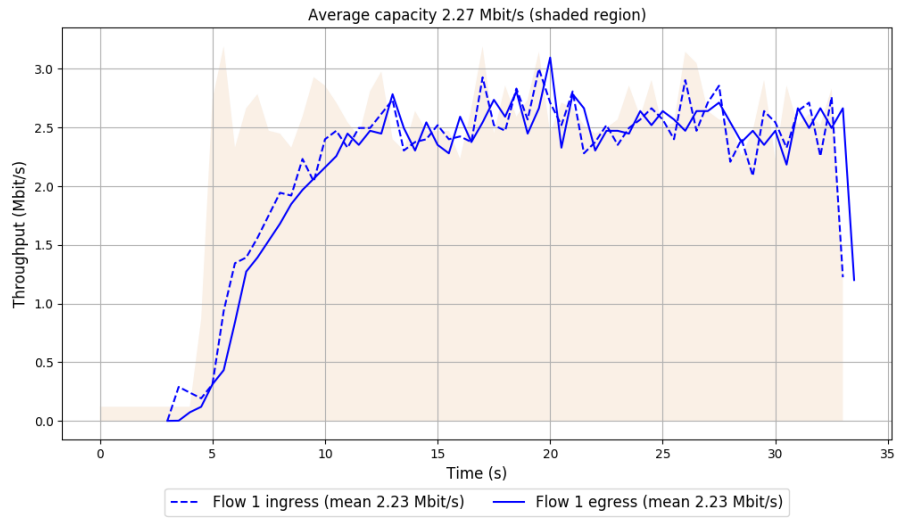
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 174.262 ms

Loss rate: 0.48%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2020-04-16 07:29:05

End at: 2020-04-16 07:29:35

Below is generated by plot.py at 2020-04-16 07:39:48

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.24 Mbit/s (98.7% utilization)

95th percentile per-packet one-way delay: 178.388 ms

Loss rate: 0.48%

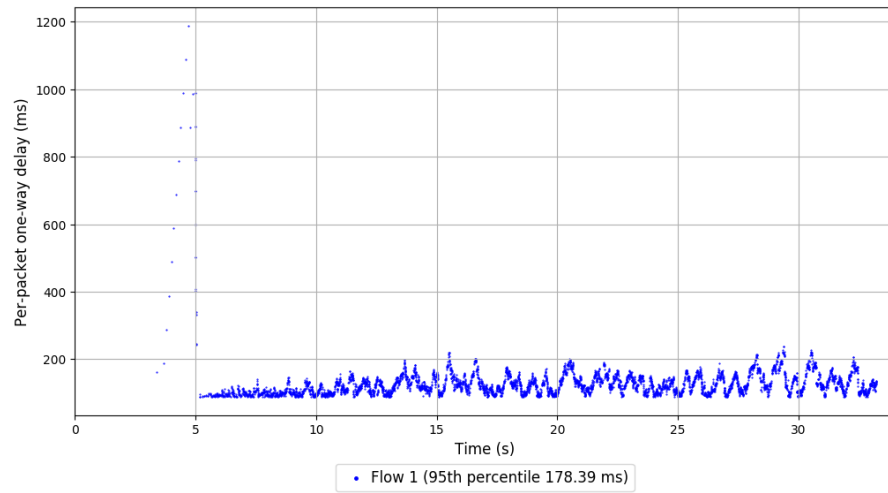
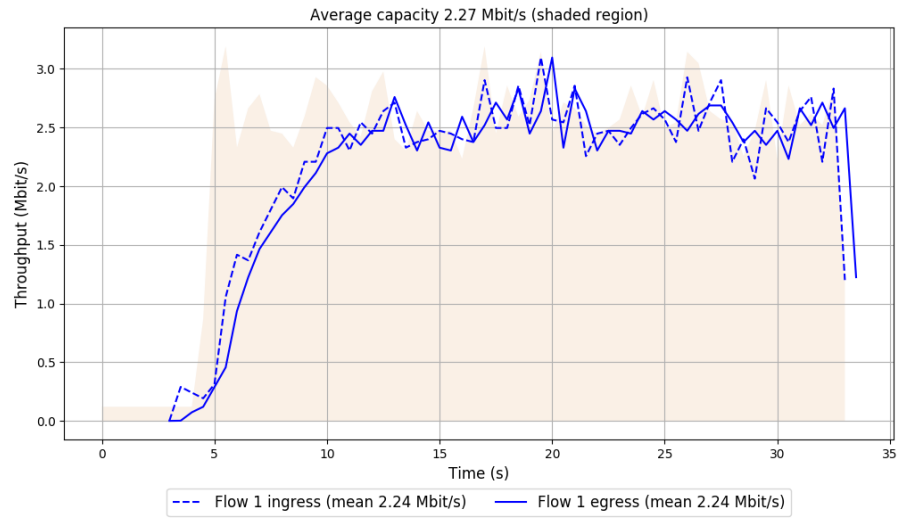
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 178.388 ms

Loss rate: 0.48%

Run 3: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2020-04-16 07:09:56

End at: 2020-04-16 07:10:26

Below is generated by plot.py at 2020-04-16 07:39:48

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.38 Mbit/s (104.7% utilization)

95th percentile per-packet one-way delay: 718.166 ms

Loss rate: 7.86%

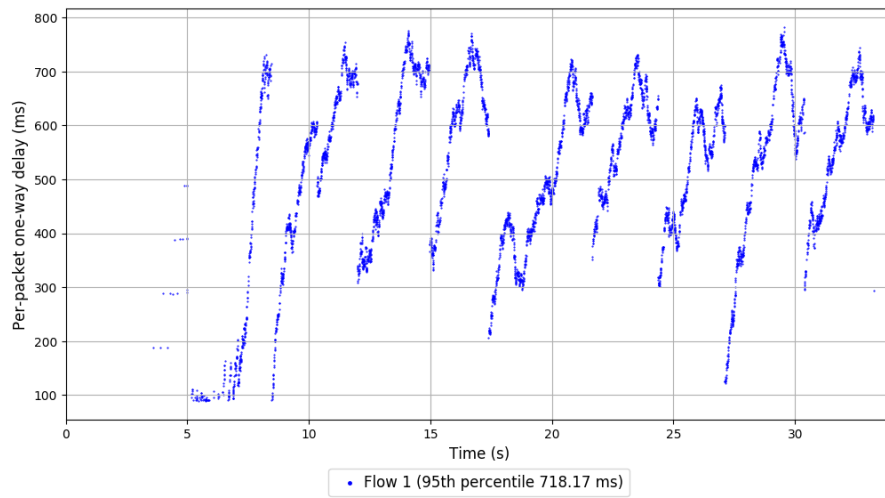
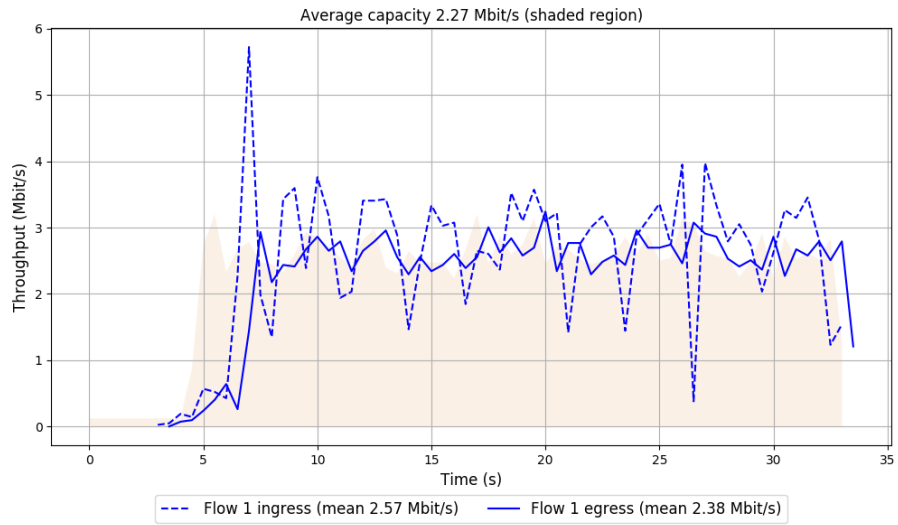
-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 718.166 ms

Loss rate: 7.86%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2020-04-16 07:23:51

End at: 2020-04-16 07:24:21

Below is generated by plot.py at 2020-04-16 07:39:48

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.38 Mbit/s (104.7% utilization)

95th percentile per-packet one-way delay: 714.652 ms

Loss rate: 8.85%

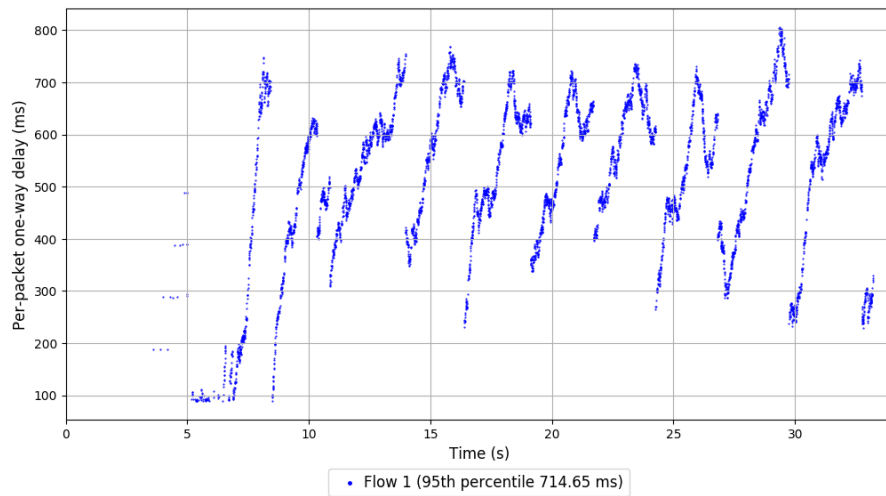
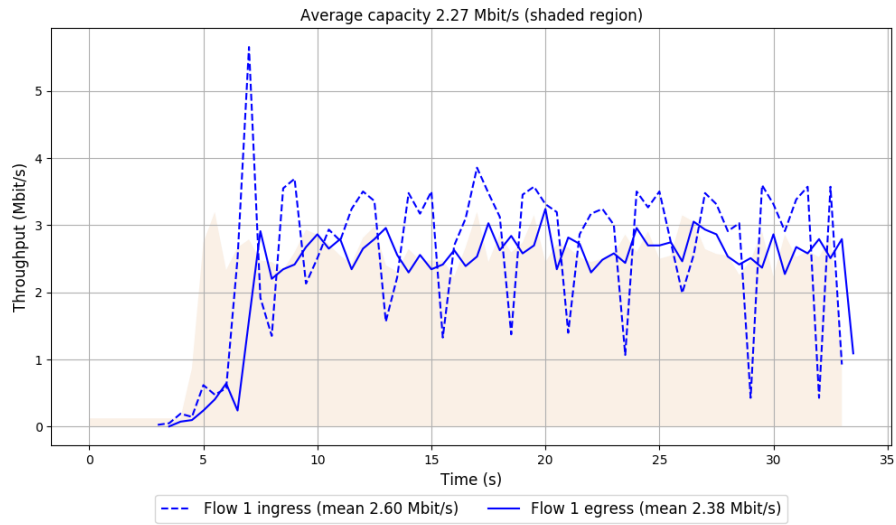
-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 714.652 ms

Loss rate: 8.85%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2020-04-16 07:37:46

End at: 2020-04-16 07:38:16

Below is generated by plot.py at 2020-04-16 07:39:54

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.38 Mbit/s (104.6% utilization)

95th percentile per-packet one-way delay: 708.116 ms

Loss rate: 13.98%

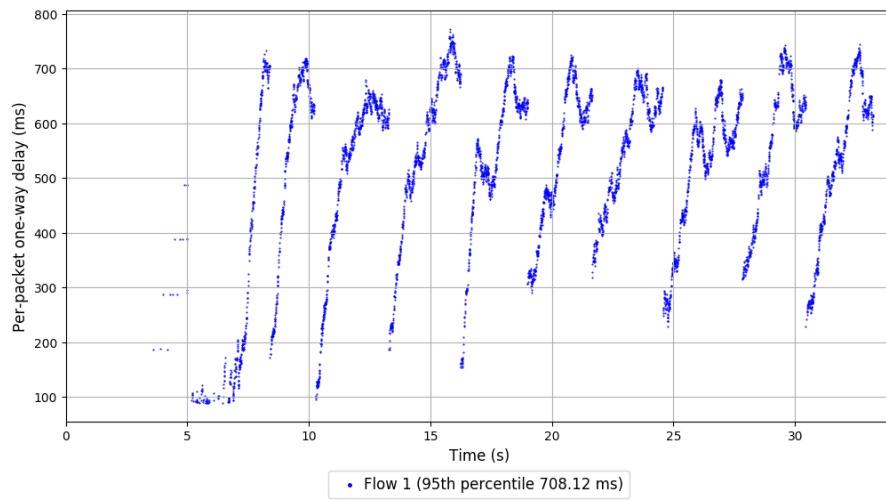
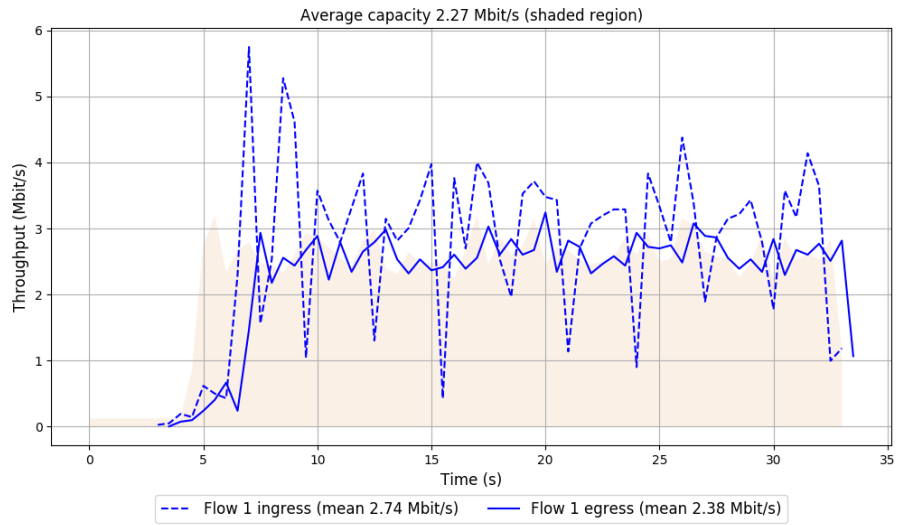
-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 708.116 ms

Loss rate: 13.98%

Run 3: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2020-04-16 07:00:04

End at: 2020-04-16 07:00:34

Below is generated by plot.py at 2020-04-16 07:39:54

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.22 Mbit/s (97.8% utilization)

95th percentile per-packet one-way delay: 704.724 ms

Loss rate: 13.32%

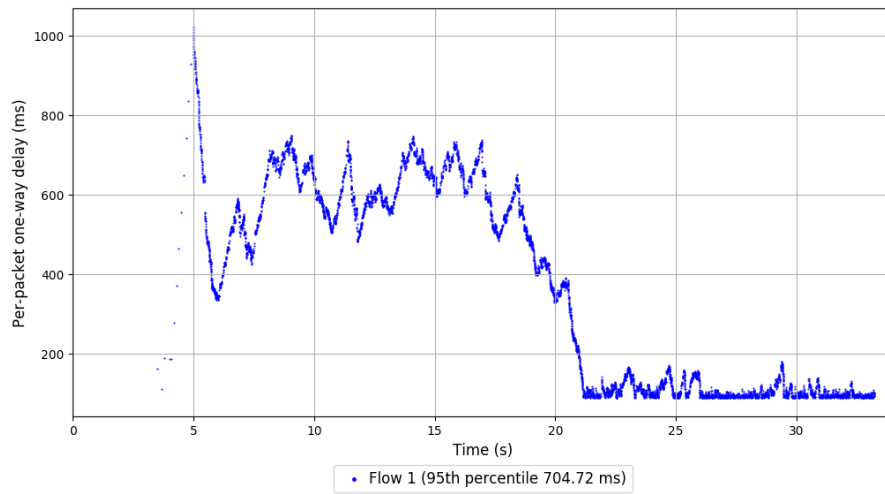
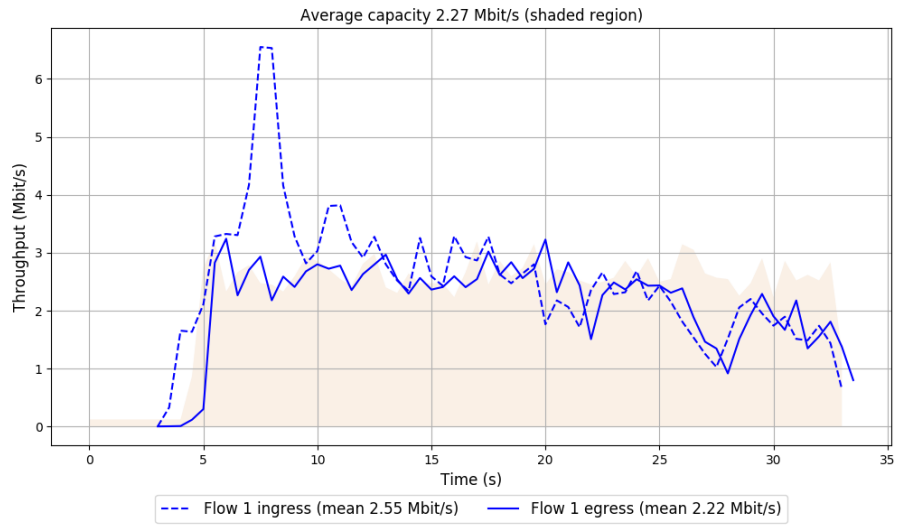
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 704.724 ms

Loss rate: 13.32%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2020-04-16 07:14:00

End at: 2020-04-16 07:14:30

Below is generated by plot.py at 2020-04-16 07:39:55

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.29 Mbit/s (100.7% utilization)

95th percentile per-packet one-way delay: 712.532 ms

Loss rate: 15.04%

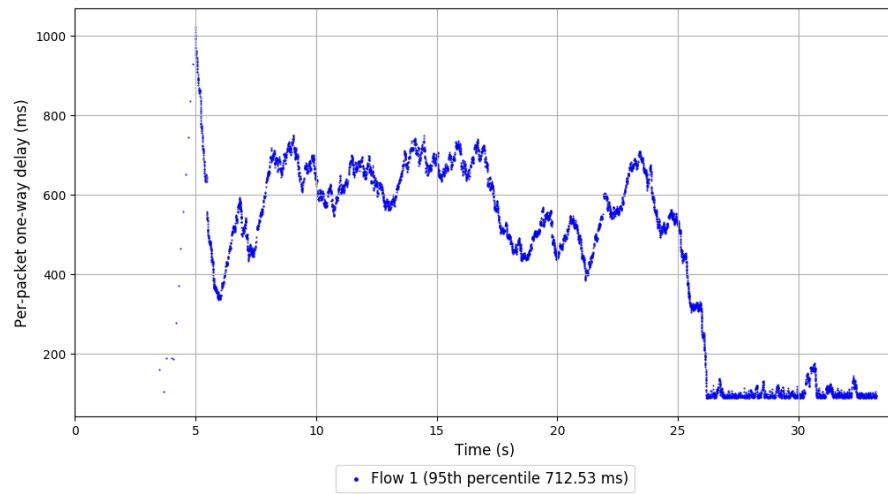
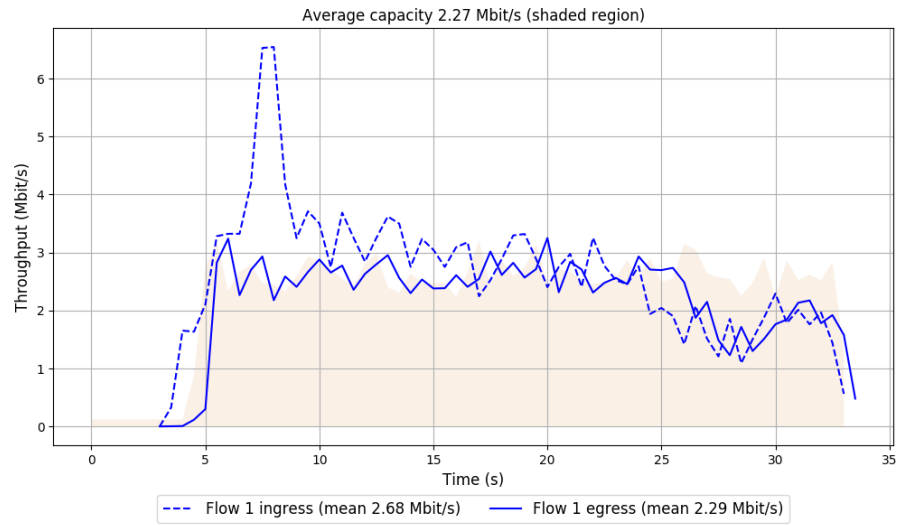
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 712.532 ms

Loss rate: 15.04%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2020-04-16 07:27:55

End at: 2020-04-16 07:28:25

Below is generated by plot.py at 2020-04-16 07:39:55

Datalink statistics

-- Total of 1 flow:

Average capacity: 2.27 Mbit/s

Average throughput: 2.51 Mbit/s (110.6% utilization)

95th percentile per-packet one-way delay: 724.743 ms

Loss rate: 25.69%

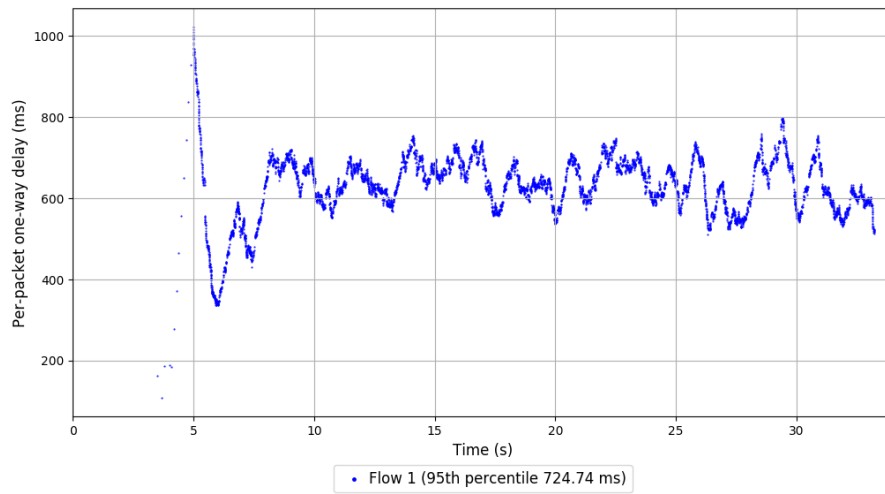
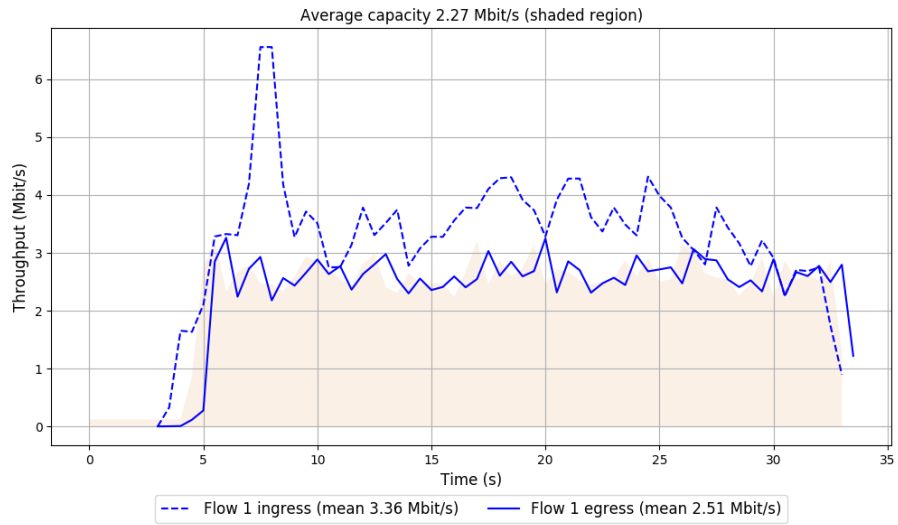
-- Flow 1:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 724.743 ms

Loss rate: 25.69%

Run 3: Report of PCC-Vivace — Data Link

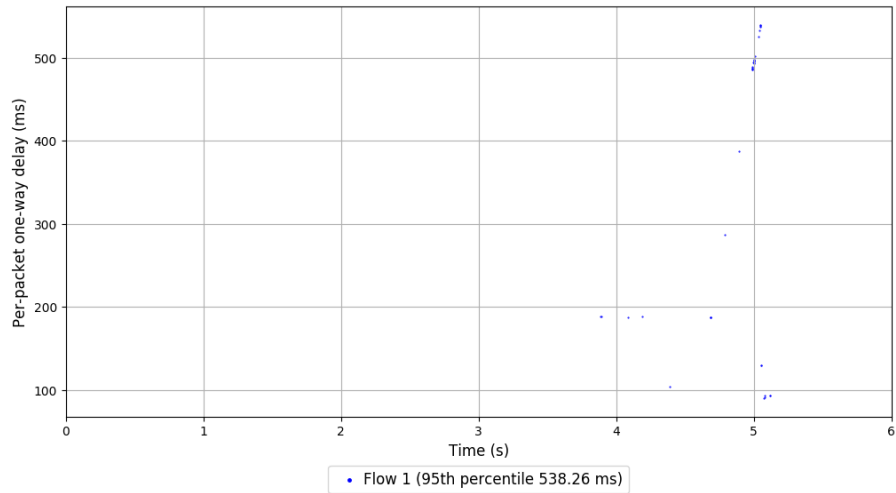
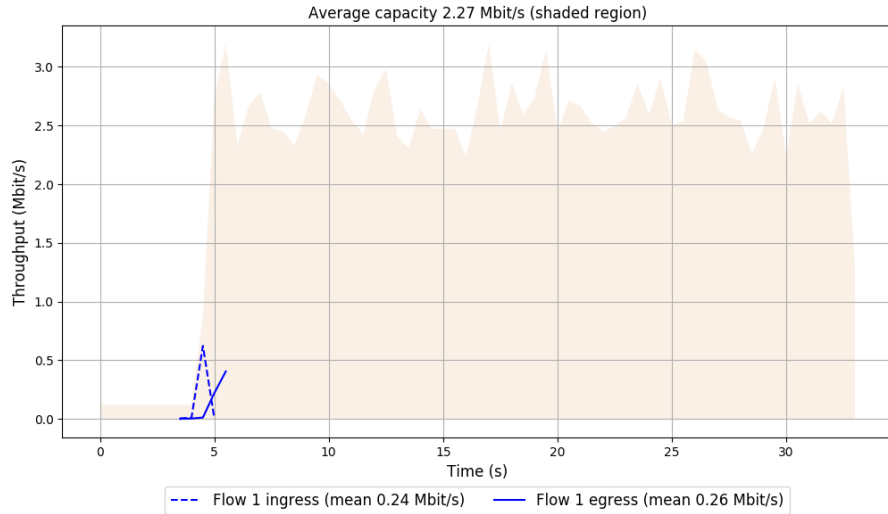


Run 1: Statistics of WebRTC media

Start at: 2020-04-16 06:58:20

End at: 2020-04-16 06:58:50

Run 1: Report of WebRTC media — Data Link

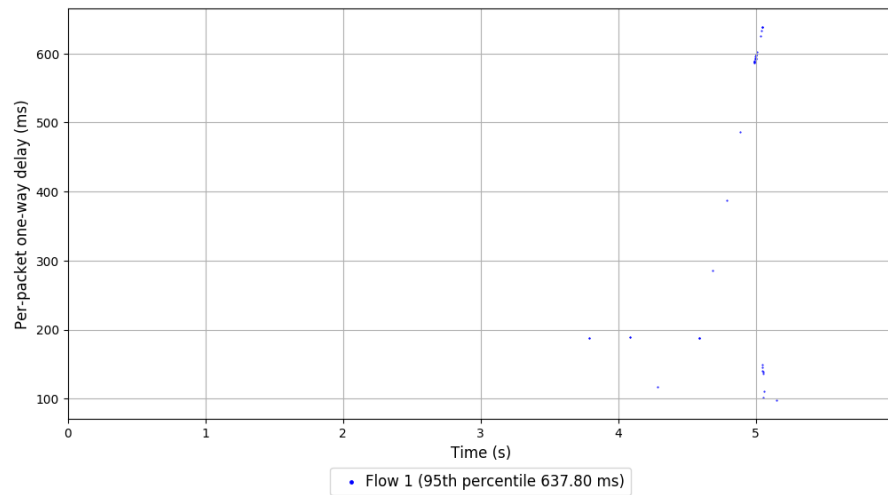
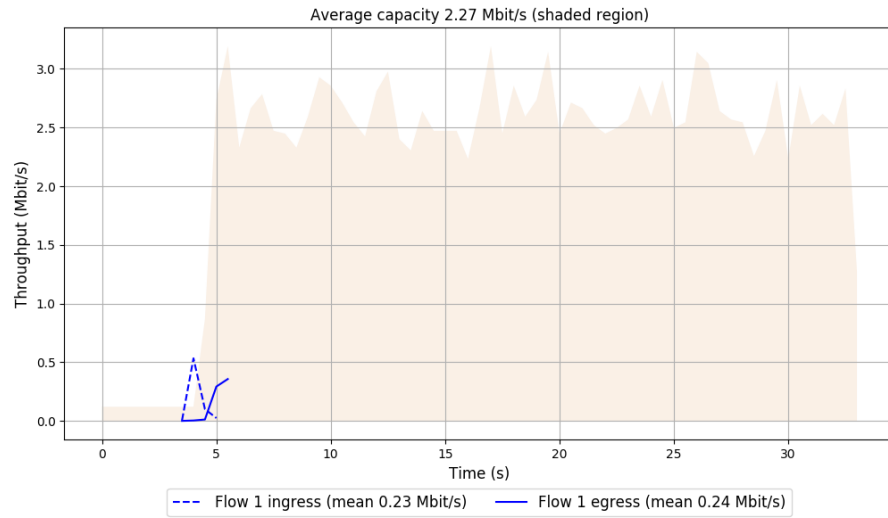


Run 2: Statistics of WebRTC media

Start at: 2020-04-16 07:12:15

End at: 2020-04-16 07:12:46

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2020-04-16 07:26:11

End at: 2020-04-16 07:26:41

Run 3: Report of WebRTC media — Data Link

